ISSUE 25 · OCTOBER 1989 · C1.50

MAGAZINE PHE YEAR

ST MAMIGA M C64 M CPC M SPECTRUM M PC

ADVAN "PUTER ENTERTAINMENT

Exclusive. We get our hands in the ultimate games console...

KONIX:



The hardware... the software...

...THE TRUTH

LEARN TO FLY



- with £600 of frea lessons from Activision. Check out page 38.

TAKE OFF

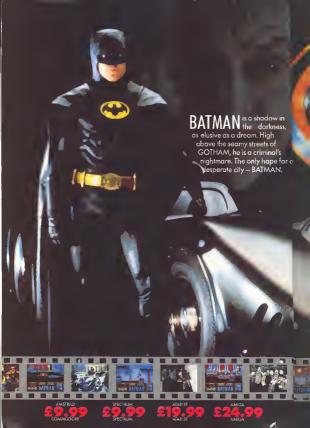


...in F15 II: the most technically advanced flight sim wa've sean on a home micro.

CRASH!



...If you're lucky, otherwisa mankind might as well resign. Find out why insida...









Staff Writer

SPECIALS

KONIX: THE REVIEW ... While industry grants Sega, Nintancio, and Atan wage bitter console war on each other, a small Weish company has

howaht out a machine that could out all the others to shame, ACE gets its grubby gaws on a full working system and tests both the hardware and the warnes that come with it...

ARCADEOLOGY ...

Ever wondered why Donkey Kong was called Donkey Kong, or what the bug was in the first version of Break oul? Julian Rignal comes up with the answers ...

GAMES GET MEAN30

Was that last game you bought just too hot to handle? Do you wimp out on the second planel in Blood Money? Andy Willon checks out chess games that make rencement out of Grandmasters, and wonders whether the struckle between programmer and player is getting just a wee bit one-sided...



ARE YOU A WEIRDO?.....101 Probably, out check out our exclusive character analyses In be absolutely certain ...

MAKING ITmoney, that is And music MIDI enables some people to do both. Check out the ACE Ten Point Guide to MIDI Studio Prolessionaism...

ENTER CYBERSPACE!.....105

ACE gets on the scent of a remarkable new development in graphics programming. Brave new worlds on the screen are nothing new, but soon you may actually be able to enter tham!

SCREEN

FOUR 900+ games this month, with a tremendous spread of gameplay ranging from high-flying simulation in F15il to frantic fun in Rick Dangerous. Or you might fancy a spelf as an Egyptian god in Eye of Horus, or a quick game of Shufflepuck in the Resigurant at the End of the Universe (or somewhere like it). Remember, it it's here, it's hot ...

ACE RATED F15 STRIKE EAGLE II

Microprose 42 STRIDER U S.Gold......47 XENON II imageworks50

...and the rest...

APB Domark..... BEAST PSYGNOSIS..... BLOODWYCH Myrarsoft CASTLE WARRIOR Delohine...... EYE OF HORUS Logotron62 FAST BREAK Accolade57 OIL IMPERIUM Reline......58 SHUFFLEPUCK CAFE Domark/Broderbund......67

TANK ATTACK CDS.....54 TURBO Microdusions..... STOP PRESS REVIEW



uр

Activision reckon they have a winner in their latest re-

You mey not realiso it, but the gemes we pley in Britein ere ofton dotermined by the buying whims of people in Americe end Jepan. In the old deys, the Commodore 64 rose to power on a weve of imported US softwere, end now Nintendo threetons to swemp the world gemes merket with Japenese Gamoboys. Then elong comes Konix with e world-beating BRITISH hardwere design. And what heppens? Do we give them e big hend? Do we ever?! On the contrary, a selection of gloom-mongors in tho business go around saying whet a wonderful machine it is out of one sido of thoir mouth, and how it's bound to feil out of the other. Oon't knock it - this machino is GOOD. Just keep your fingers crossod and Britein could soon be teking the trophy in the consolo wers.

GAMEPLAY

including Xenon II (not to trot). Eye of Horus (Set in

ACE goes age as we discover an arcade mother-brand with

Hot conversions for YOUR machine ... grilled by experts.

TRICKS 'N' TACTICS74 Maps, guides, and tips to help you get your money s

PREVIEWS.....

contemplates some of this Autumn's mega-releases.

REGULAR

Check out our Anti-Guide to the PC Show; a computer game played on Danish TV by thousands of players smultaneously, a grant Armga; and all the latest tidoits from the world of computer gaming ...

Are you ALL wimps? Are gamps really too difficult? Is Gnorth really God? Do we really have to put up with this?

Sword of Aragon sets the ACE Treatment, and we moort on the very promising Hound of Shadow, to be released this autumn - can it bring RPG into the mass market?

FREE ISSUE!..... ARTHUR: "Er_Nothing, dear.," (Sneaks off guilts) to collect free subscriber's copy of ACE, just popped through

MABEL: "Arthur? Arthur???" (There is no reply...)

SCREEN TEST

The latest releases tested rigorously by the ACE team.

Egypti, and Psygnosis' Beast (... and bones), Plus FJ5 Strike Eagle II, king of the flight sims... for the moment. ARCADE ACE .. 2048 sprites and 4352 colours on-screen at once UPDATES.....

worth from today's tough cookies.

Old Groper indulges in a spot of heavy breathing as he

And...ah yes....nat menny typink errers ADVENTURES...

MABEL: "What was that noise at the front door, Arthur? **fetterbox**

XENON II - latest co

tender in the 'shoot-

up of the year' category

er. We recken you've got a winning chance of flying off with this £600 prize on P38.

n Ancient

PAST, PRESENT AND FUTURE. O OCTOBER IS AD&D MONTH FREE! STAR DEALER FOR

AMOUR LOCALS

SEE APPOINTED DEALERS BELOW

All Compared in Course Sand, Course Print 18, 1922 (2011)
As Compared in Fed Sand Seed and All 2023 (2012)
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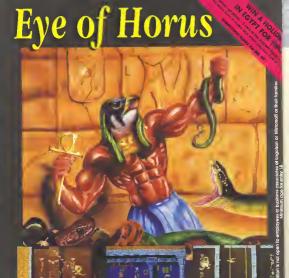
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Walk Like An Egyptian.... Fly Like A Bird

ou are Harus, the hawk-headed God that embodied all that is light do a that embodied all that is light id good to the Ancient Egyptians. w, in the labyrinths of a burial cham-ir, you must relive the struggle that is

the myth of Harus

Eye of Horus synthesises adventure with trenetic groade action- Adven-ture that is taithful to the Myth of Horus as told in the Egyptian Book of the

stunning Egyption graphics 44-location adventure area aver 30 collectables with unique

Arcade power from state-of-the-art techniques-5 types of firepower

over 50 types of hieroglyphic attack

arcade scoring and high-score table







ACE NEWS

ATARI UNWRAP STACY

Ccording to sources close to Atari, several new ST-compatible mechines are to be leunched at the World's lorgest Atari

show in Dusseldorf, Gormany.
The machine most likely to appear is the long-awaited Stacy,

a portabla version of line ST Several salbacks have caused the machine's release date to be postponed the latest datey being due to the lengthy process of bioning TOS 1.4 (the New operating system) onto ROM

Foot versions of the linguistic are planned. The basic model will once with an 80Minz 68000 per-cessor fuelerclass? I radie of the current. ST processors, 2564. ROM, 1 Mbyle of main microry, 32 of stabic RAM for the screen, 32-of stabic RAM for the screen, 32-of stabic RAM for the screen, 32-of stabic RAM for the screen, 1821. School food and the school food and

Other models in the Stacy range will come with various contiburations of drive and memory

All standard ST ports are present on Stacy: monitor socket senal, MIDI, parallel, lioppy, hard

disk, RS232, cartndge, The basic Stacy is expacted to start around £1000.

Atan's 68030 workstation is also expected to be displayed at the show. The TT, standing for thirty-two thirty two, is claimed to

support the Unix, ST TOS and MS-DOS operating systems. The TT is likely to come in a tower syslem and be priced around £2500

ST gemas players have long been wealing for Parn In produce a machine capabile of gaing the Amiga a run for 15 money. It seems Alam has laken note and is to lunch an expended ST in Observation. The notion of a super ST is nothing have, but if seems things are really trappening with many major software houses in the country lawing received development mechanise. After is plaining to quelly introduce the enhanced ST, or STE, in piece of enhanced ST, or STE, in piece of

the existing 520 in the Powarpack bindle later this year Details on the new machine are sketchy, but sources have

revealed the following.

-4096-colour palette with identical resolutions and on-screen colours.

to the existing ST
-Two-channel stereo 8-bit DMA sound chip as well as the existing ST yarnahu sound chip
-Extremely rapid multi-directional hardware scrolling.

In all other aspects the STE was be identical to the ST. A desirable sided flooply will be provided as standard and the processor will be the same Bitharanded 60000 affair find graces all current STs, Because the STE will contain the same hardware laiding with a few extrast as the ST, all existing ST.

progrems should run on it.

Next month's ACE will carry a
full report of the new Atan
machines shown at Disseldorf

ELECTRONICA '89

New Agres and computer music and graphics freels take note. The Electronica 93 shoul falms place on September 23rd in London's Logan Hall. A battley of synths and computers with bis producing all soits of fer out music, while basis of Amigas and a Famight Computer Visite instrument are among the visual stratectors, if you want totaket is further details, contact AMP Records on 01.885.5665 during effice hours.

BABY ARCHIE GETS GAMES

Acom's cutdoom Archimetes, the A3000, bods as though it's going to get the games support that it's began brother imised out on. Reposteratibles from 30 games software houses recently altended a conference organised at Acom, where the hymest out lined a marketing stratesy inner than the Arche ever had and revisited details of the developers' pickage for the machine.

carnad, the whole thing seems to have been a success; no less to have been a success; no less a Jummary than Oceans Gary Bracey said affarwards "ti's a hovely machine and "m sure we will be doing something for it, a From what I have seen and dearned today the A3000 deserves only our halphas profile."

As far as Acom and the

A3000-buying public are con-



Hard Drivin' - seen appear on the A3000

titles such as Batman and The Untouchables' Other software houses ared smifarly criticusas-tic opinions and one, Domark, already have two games under development - Trivat Pursuits and Hard Drivan', die to be previewed at the PCW Show.

WORLD'S LARGEST AMIGA?



It's not just the Yanka and the Japa who produce a sails engineents. Our Emission corresponding, Kaneshi Bercholms engineents of the Sential Control of the Sential Control of the lated at the Wiking, The Tweet Amiga list you shall you come system in a long restancial-tised calcular. All the websites ser on the freed of the box, making it note and Amiga 2000—but heart in long room less all social of all the Amiga 2000—but heart in long room less all social of all cars, the hand disks, PC semistars beareds, contact, series RAM, control of the series of the series of the series of the control Rod on heart and you relight history. For except ROD Emistrate of Africa will still be your Amiga Inside the best one of set exceptibles on, Emission and in soon of if [Telenther].

SKYWARE!







Teldously storing store lights could take on a whole new dimension next year of Prissary's real hillegrades. Firstly and Entirtainent Services System (ESSS) becauses results. ESS and allow you by pilip compate games, not video and outso channols and access triebelating and discipance services. If firm the immanial content of your pains sear. The system contents of your pains and the system companies acceded access to the policy to access the system companies and the content of your pains and the size of the state of the system of the system

IT'S MAGIC The gavs at Liverpool's Digital

Magic Software are busy performing magic tricks. Jines Bart, DMS company boss, explained: "Yie been doing magic tricks since the age of six end got John Law (another DMS person) wherested soon ofter I meet him".

When we asked what tricks

DMS get no to, Jules replied. Nothing too big like sinching stage props, jest slight of hand close-up stuff with cards and coms in the pub? It certainly looks like we have line beginnings of a games industry circus, it there are any other acts out there please get in tonch.

RENT BOYS TAKE ACTION

You can now rest Action Screenplay, the comparity sames video magazine, from your local video library. Screenplay's latest save, number three, is a 90 mustle for true length edition incorporaling over 35 games, 22 interviews tone with top US games compary Activation, the other with music maestro Bomb the Basisk, and et new sertion. Playbord, which relives classing general of biggene days. If you prefer you can all buy the wide frem your local solit-



PIRACY KILLS...

Mingo Anyattler managing director of bankinol games soft ware company Software Horizons, has placed the blame for his companies recent demose firmly on the shoulders of software pirales and their flegal practices.

Amyothlar told ACC, Obsbudy we were mode-conducted by PRACY PUT US UNDER. Take one of our ST games as an example. Dragonscape soid only 2000 Copies worldwide, out of a potentual marked of our a million STs. Tabli is a petity poor showing. On the whole student he commerced, "I feel really pisced oil, pracy has god a lot worse over the last few years and shows no signs of shooping."

Software Horouss was set up by the 23 old entrypensur last year, and produced such games as the allowershoosed Dragon-scape (a multi-intentional blaster) and Veteran (a Operation Wolf integred shoot'en-up). More receitly Honzons tuned as attentions to more serious products with the Mastersoned sound sampling hardware and software for the ST and vines protection soft wars. Steesafe on the PC.

The company leaves debts of over £370,000 with Amyetitler personelly losing 'a substantial amount of money'. He laments, its e very messy business but I will be staying in the computer games industry'.

Meanwhile news reaches no from Denmark, scene of previous ACE investigations into international pired only nothing to help the stuation

SNIPPETS Leading software games compa-

ny, US Gold has put the price of its £14.99 16-bit games back in to £19.95, because of a lock of response from the games buying public. Gold originally had plans to refease legislant, the IREM beal emup, for £15, but has noped as price by £5 Megandrúe, Pinan Lessure is:

re-releasing around 60 16-bit games for the rock bottom price of £5.99. Among the titles die lor price stashing are Addictive's Footbad Manager (STFC), Hot-shot by Solicy (ST, Amag, Shot by Solicy (ST, Amag, St. Amag) interphase, the eagerly awai-interphase, the eagerly awai-

ed Mercenary-type game from Imageworks, is finally going to make it onto ST and Amaga in October, with a PC version to follow et Christmas. Have you seen De Hard, the great Bruce Wills affaction movie, on video yet? If you enjoyed the film, you'll be pleased to know Activision is releasing a De Hard computer game on all major formals this Christmas.

Activision also has the licence to the new James (Terminator, Albens) Cameron film, The Abyss. No details of the games at the moment though

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Kevin Toms, author of the immensely popriar Football Manager loobe-sim is just putting the finishing tonches to World Cup Football Manager, just in time for the World Cup next year.

Microprose really cares about you gamesters: they we just spent another £2500 on their new racing-sim, Stunt Car Racer, just to improve the games presentation and graphics

A staggering 9.1 million Super Mano Brothers Nintendo games packs hew been sold in the US elone, How soon before the game Is in every single American household? And how soon before Kintendo decide to debige we Brits with hall little old Famicop? Meanwhile a number of indns-

bearwine a number of indistry observers are favouring the inanochrome Nintendo Garneboy over the colon: Atan Lynx, simply because of Nintendo's power in the markel place



Vigitante - now coming to you of E5 more than you espect-

PHILIPS GO CYBERPUNK



Find up with your tired booking video recorder? Wolf Philips may just have the answer thunks to its new Wi6680 hours? VCE with built-in 3" colour LCD TV. The TV can be used spectarily from your rormal TV and has a POP (Pricture Decliny. The price for lawling the "current" last word in video docks in SEP). Philips also has the ultimate personal streets for all you blinch posers out there. The 3LC2500 is a street of any time to the second price of the second position of the second s

THE ACE PC SHOW GUIDE

(Everything you wanted to know...but couldn't be bothered to ask)

Many of the computer companies won't even be exhibiting at this year's show, and fewer still will actually allow you to see their wares But never fear, just read our definitive quide to not there. who's not there, and how to get where vou're not wanted...

50 THINGS YOU WON'T SEE AT THE

(Entries correct al time of writ-

· Anybody on ACE buying a drink All Electronic Arts new games. Appressor (Jez San's new flightsm louted by many as the successor to EAs saperlative intercepler, Magic Fly (an original game by the authors of the bniherl ST arl package, Flar Paintl, the new Builtrog game tanother game from the team that gave us Populous need we say more?t, Ferrari Formula One (on the Spectrum, C64, CPC, ST and PC) and Oragon Wars (the latest creation from Interplay, the guys behind The Bard's Tale series, Battle Chess and Neuromancer). · Any Codemasters games We'll

leave it up to you to decide whether this is a good or bad · Anco has decided to Jurgo the

hassle and bustle of the PC Show because it's a waste of bloody money and you don't meet anybody new Among the Anon selection you'll miss will be Kick Off (Spectrum and CPC versions). Player Manager (the Jollow up to Kick Offi, Kick Off Expansion Kit (you can never have too much ot a good thing) and Rally Cross (makes a change from lootball). · Digital Magic Software's two

flew releases, Drivin Force (multivehicle race-sim) and a multi-direcscroling helicopter shool em-up. · Perhaps thankfully, you won't

see a loll of Entlyn Hughes, 'cause Audiogenic will only demonstrate

Emlyn Hughes International Soccer (ST and Arraza) Emilyn Hughes Arcade Trivia Quiz inc comment), Lone Wolf Books like you I have to stick to the lantasy novels! and Helterskelter (on the PC), to a select lew at a nearby

holel. · AMOS, the Amiga version of Mandann Software's popular ST games creating BASIC, STOS

· An extensive race of Microprose titles including Rainbow Islands (com-op manufacturer Tato, masterly follow no lo Bubble Bobbiel. Stunt Car Rocer the latest game from Geoff Crammond, the programming genus behind Sentinel and of course Revst. UNIS If the one all ST, Arrige and PC computer

wargamers have been warting for). Starford (Maelstroms s answer to Elte, with even more trading and action Interestingly enough Star

Gamesweek and The Bug (they ve all disappeared since last years

 Jane Smith belly dancing. 8.ocotron are at a hotel just round the corner from Earls Court)

10 THINGS YOU CAN SEE AT THE SHOW ...

· ACE that goes without savings. · Ocean's Betman three sormes eternal, and you might and a Bat. man stocker, poster, badge or even the compuler game).

· Bar Ithal's where everybody is most of the time).

 Domark (the Twits always come np with a new harbrained scheme every year, remember last years London donble decker bus, or indeed Jeft Archer the year

before?). CRL (lo pick np the newes) Virus Bustine program for your PC. ST or Amiga).



This year's classiest promotional stunt bee get to be the amez-ingly mobits abdomen of Jane Smith, brought to you courtosy of Logetron, but you it have to get past hotel security to see her...

ford started life as a Play by Mail game run by Maelstrom's boss. Mike Sculeton), Starplider MPC1 Weird Dreams (C64, Amiga and PC). F-19 Stealth Fighter (Amgat, Tank (ISM), Red Storm Rising (ST), MidWinter, Survivor, Rat Peck, Epoch, P-47, elc. Oh yes, and you won't see anybody from Microprose either.

· Many marvellous Mirrorsofts games such as it Came From The Desert, Interphase. Chaos Strikes Back, Crime Town Depths, Terrium, Paliadia, DDT. Vettel plus six new releases (three of them "really

major'l...all these will be absent. along with the rest of the Mirror soft learn.

· Software Honzons, Computer

 Virgn/Masterfronc (the latest m budget, full-price, com-ops and Sega Cartsl. · Infegrames Drakken, (one of the best role-playing games released this year) will be there US Gold (check-on) the Michael

SHOW DETAILS The PC Show is being held

at Earls Court, London Irom 27th September to 1st October between 10am and 6.30pm (5pm on Sunday) Remember the first three days are reserved for business and trade visitors over the age of 18. More details from show preasurers. Montbuild on 0203 464004

27 SEPTEMBER - I OCTOBER 1889 EARLS COURT LONDON

Jackson impersonator). · Ocean lit's always worth a sec

. Jane Smith belly dancing (I you can gell by the hotel security

THREE GAMES THAT STILL HAVEN'T MAGE IT FROM LAST

YEAR'S PC SHOW 1. Damocles (Novagens folios up to Mercenary must have broken all records, it's being launched all the PC Show for the

third year in a row). 2. Ramrod - Grentin's surreal ears testuring ministure com-oa machines, Pepsi cans and CD's was first mentioned in ACE Issue

3. Interphase, Imagework's solid 3D arcade adventure - lormerty

4 An honorary mention must go to FTL/Mirrorsoft's Dungeon Master expansion kit. Chaos

Strikes Back

THREE WAYS TO GET IN (WHERE YOU'RE So, you've sel your hearl on

attending that all-important press launch (lunch), here's a few way's you can go about it. 1. Pretend you're a treelance your

nalist. You'll need: aone glasses. miniscassette recorder, notebook, an extremely bonng personality 2 Pose as Jez Bitmap, creator of Xenon Glider IF You II need' acres glasses, rucksack, anorak, hex bmary calculator, and a fluent fine in hacking bulishit, '16 million colorrs on screen out of a palette of 2, every pixel a sprite, simultaneons scroling in 27 directions... 3. Pose as the Editor of ACE

You'll need glasses, notebook, bald head, harrassed appearance. and a copy of last month's letters. cases

Advanced Computer Entertainment 11

Hard or for cence natov Abyss. a) Jhe

ird the move. ed the know

of the Man ng the Cup me for about

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THEY CAN'T ALL BE WRONG! ST ACTION

STA1

"Demands your undivided attention end sets your pulse racing. Quite simply the best ST Shoot 'em-up to date. Exercise your greed in this supreme ercade experience

GAMES MACHINE - 'STAR PLAYER' 90%

Irridescent, irrepressible end utterly playable. In one player mode it's great, in two it's incredible tun." ZZAP-'SIZZLER' 94% "Blood Money ranks as an all time Zzap Office favounte"

AMIGA FORMAT-FORMAT GOLD' 92% This game is so visually brilliant and possesses those classic addictive qualities, that once you've picked up your joystick

you just won't want to put it back down egain." SMASH MAGAZINE-'GOLD MEDAL AWARD' 'Graphics 10 Sound 10 Motivation 18 Value 18 - Aperfect score!"

PSYGNOSIS - GAMES PEOPLE PLAY

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Saint & Greavsie

The Ultimate Soccer Trivia Game

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Soit - Gravidia in 1 Aphyra social Tivid gain a tendent the board gains and oracle ylung Lobh and dimmy Graves. With a work from 3 caught gains a HOME ANNLY O'D SBY soit his a verying dispert of difficulty and the three 2000 sections to a storer, this is yout cheere to be specificated, of football Choose a play made from the grave of the solid liberation of the so

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AVAILABLE ON:

CABLE GAMES I am writing m reply to the letter

about Inking two ST's logather with a serial cable or a 'datalink cable I made a 2 metre long dalalirik cable after buying Powerdrame. My triend brought his ST

round and we had a game of Powerdrome against each other Than Populous was released

which also supported datalirising We decided to make a huge datalnik cable to go between our honses (we see next door to each

We bought a 30 metre rolary cable from Tandy's and connected plugs to it. It worked vary wall and is still working now Wa also played Falcon with this cablel

Level 122 of Populars is called VERYQUEER and is almost

Why did the ACE CARD compelition stop? I got an ACE CARD about 6 months ago and the competition only lasted about another 2 months

have never won any competibon and I hoped I would win something in the ACE CARD competition, but it finished before I even got a chance

J P Boggis, Suffolk

Interesting to hear about your dalabnking - has anyone else thed lins? Write and tell us As for the ACE Card, this scheme was started - and stopped - by the magazine's prayous publishers. The good news is that we are currently setting up a inolacement scheme to me so the magazine in the very near future. If it be different, and a lot more interesting than the Card, so slay funed.

SHOWBUSINESS Could you please tell ma whera

and when the next Commodore computer show is bacause I have inst set an Amiga and I want to know more about all the games and stuff, so please lell me. Ohl. and could you make sure it's in Britain!

Mark Kelly, Onley

I, the snoreme King ol Gods am

ON MATTERS OF DESIGN

I am writing lice your advice on a small matter, which shouldn't be too much hassle for you to reply on. Eve thought of what I consider a very good game idea, which is definitely an original. I'm contacting you with the hope that you'll tell me where the best place to send it off to is 'Best' meaning a place where they do a good job and pay reasonable rates. Although tons of money is not essential as I would be very happy just to see my idea marketed. I consider money an extra-one which I can always use! Anyway, I hope you can aid me and please keep up the standard of ACE (no skimping on pages please).

Seth Cheeseman, Gwynedd

Selling game ideas rsn I easy because you have to develop a relationship of trust with a software producer so that when you tell fee about your multi-million dollar wheeze he doesn't fob you off with a pril and publish it anyway. Best way to do this is to team up with a programmer whose work has already been published and who

already has good connections. Failing that, the only way to go is the usual letter, phone call, meeting route - fraught with delays, pufalls and disappointment.

O K, I appreciate that you can only print so many letters in each resue of ACE but I must admit I was really peeved when I saw that my recent letter on game designing had been overlooked, or had it? I refer to a letter I wrote to you concerning the arboles 'GAME DESIGN' by Jan Right in the June and July

issues of ACE To refresh your memory I am a game designer, but unfortunately I have no contact in the software industry and therefore I have had great difficulty oblinning any interest what so ever in my design from any of this

The articles were full of good advice for up and coming game designers, but I'm just wondering whether

it was a case of killing up space in your magazine and maybe you thought that no one would be that both-I am bothered about game designing, and I'm pretty sure that other people such as myself are con-

cerned that the software industry is not laking a damn bit of notice of us. It looks like the magazines aren't taking any notice either, maybe likey are on the same payroll and don't tancy the idea of giving out another slice to any one else. Could if be that all my letters are gatting lost in the post, maybe its a conspiracy against me, a black

list, or maybe I have to join a club or something. Whatever the case may be, one thing's for sure; whilst there are softwere houses and computer mazazanes around that are too penorant to be politic enough to acknowledge or answer a latter, the computer entertainment industry is going to be the loser in the long run I, los one, will not buy any more games from software houses that do not have the decency to reply to my letters, and that list is cetting longer every day

By my reckoning. I'll have to sell my three computers before the end of the year! What a shame! What a washil

R Barren, Nottoneham

ACE has just moved offices (again) and there has been some trouble with mark Rest assured everyone that mail is now being detivered regularly and things are getting back to normal As anyone in business will know, estiting replies out of people requires either: (a) that you have some-

thing they are desperate for as (b) instruments of tarture. Try the London Dungeon for same examples of the latter. This should wise you some idea of how to proceed

witing to fell you labourers how |

if you want to sell your compulers don't forget the ACE Readays Pages, eh?

Next Commodore Show is an Ocl 17th - 19th at the Novotel in West London Call 0625 879970 for more details. You can also check out the ACE Diary section

m the Pink Pages . WEIRD

angry I am with I hose minor beggers down there, with them stly little idrosyncrasres. These preposterous mitas happen to be the pamper programmars of Operation War I am sick to death of the ledges multipads in between the levels on my little toy Amstrad CPC 464 I demand you to give ma some of your patty chaap advice Will £1m be O.K? I am sure you are the cheapast around

The King of Gods

Get a disk drive - and send your cheque to the editor, marked Private and Confidential.

14 Advanced Computer Entertainment

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WEIROFR Don't you listen to Gnorth? Every

god knows that the resident of No I Nether Realm, Million Keynes is the heightary lander of Olympns. Pahl The only time Gnorth messes around with volcanges is when he cleans them out! By the way, the squashed bug on this let ler is actually Gnorth (I punished him for refusing to polish a tile in my bathroom).

And if you lot out there don't write to me, I'll use my godly powers to fload you with forms to fill m. Or I might borrow Studge Vohani's door-to-door salesman

Soon I'll sand in the details of Jupillers cabinet reshuffly Appai ently, Poserdon's getting seasick and Hermes hates his sily winged

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Psync Ear. (Sign here) God of Bureaucracy Heavenly Customs Depf. PO Box 666 Olympus

£200 BLOWOUT correctly own an Atari ST which

is fine for my word processing and minsic making, but I feel I need to axpand more on my games playing and I therefore wish to buy a console, PC Engine or Sega Megadrive I have both are very new and are fast machines in ferms of speed of scipfing and animation.

I have a budget of £200 to spend and cannot decide which one to choose, so as you have obviously play tested them could you tell me which is the best and which one has more value for money and future prospects?

P C Smith, Gloucester

You say you want to buy a 'console, PC Engine, or Sega Megadinye', but most people would consider these consoles. None of these models are currently officially available in the UK, but Virgin's current strong support of the 8-bit Sega and their statement of mientions about the 16-bit Megadrive might be an indicator of future trends. In ACE 23 Nick Alexander of Vergri was quoted as saving that we might expect delivenes early next year What about a Konux?

32 BIT BETTER?

Up mbl a low wasks ago, I had almost decided on which console to buy, the Sega Mega drive or the Konox Multi System or Nintando 16 bit (I was planning to see The Konix in the PC showl, but Then I saw an article in some weekly computer mag about a new 32 bit console by Fuilsu!

AAAGHGHG!

ACE Letters page tippos shokk horr£r...

OK, it's true. We can't spell at ACE. Not even our owne names. And less month, the bloke wot checks the spelling went% on hollyd4w diddn't hi? And wot happens, we get 181 errors on a

singgle paige.

So wot do we do, I arsk you? We sakk him, that's wot... Jokes spart, though. We are absolutely grovelling in our apologies for lest month's typos horror. At 2.00am in the morning, struggling to meet a printer's deedline that had been

brought forward, anything can happen - and it did. Here's a short, but sweat, collection of your (all perfectly spelt) letters taking us to task for the disaster. And just to show no hard feelings, we've given one of them the Prize Letter

ACE OUSTS GRAUNIAO IN TYPOS SHOCKER

Teh 24ti issue of ACe hit tah streets (and gutters DTp joke!) in a furry to misplaced commas and text, and leatried for Jeh first time a Dly anagra rEader

lettters page, Wise old industry observers reckon his pre-compute Grauniad's longistading recoird fro

typos was smasshed in a hiistone this ingika issue of tehe WOrlds favorinal advandar computer entertainment

SIII sufferign from his waistline and birthday both lytting co.inciding

39 on thie smae day, wit, ST freak reconferr and pertrubed ACF made rOn smith phoned eclosi Sleve cDoks damandign, 'so how com e you manadag to mak

e such a lash-up of it there? Me an Dowsett could't find once eample of lieh word 't e h' spell in his nighth order 2Well we've has a bit of bothre," volunteeredg siper smoth Cook,29'it was all down to teh train strike not

delinering our rubbars on time for us to correct this odd typo we. We used to have a

the rubb er on teh end of a 58 pencil, buttheydon I letus have anything sharp

and powe lost II besides, we 2ve gora laad free now and we were desperate to got the Septembber copy out in time tro July but we'll nearly got the Christ Itmas isue ready now and fi you find a type in that it's a free subby and a pint of Ruddles for you, stand on me,' he enthused Be there all you you news agent with your \$1.50 on Setember 7th, except for

Hamish Gruntar up in Glasgow, cos we fol him Octobei > His Hist Have a free rubby anway! agements promised as all a ink-rubber ech and we're all exited ab

finest read in lieh world for \$1.50

like getting if off your chess

Ron Smith, Southend On Sea

It's certainly ince to see that the staff at ACE have recognised that there is a largely untapped market for 'activity playbooks' in the computer world. I look lorward to the first full-blown ACE Puzzle And Sketch after such an excellent feaser in your last

issue (No.24 - September) No doubt thousands of readers empyed playing 'spot the error' as much as I did in the letters column.

I managed to spoil 104 'deliberate' mistakes, but I'm sure office readers out there can do better. Next month can we please have a dol to-dot picture of the Konix Mints System.

Eastside Jimmy, Steveneze

Your wish is granted, though we thought it would look better if we roned up the dots before puriting it. See pages 25-28.

Iva just finished reeding ishue "24" and I've just gol wan equestionin-JindgING BY

the typEsettING Throught THE MagAzine is therE any ChanCE, thAI onBlishinG DEDIn es cauSED a SOMEWHat ruShed ProDuCt. Or is it just that none of you can spell?

Andrew S Torrance, Glassow

How did you gess?⁴



offendine ecticles

Advanced Committee Enfortunment 4.5

NAMBY-PAMBY

Alan Hughes of Mitton Keynes and Mike Walsh of Basildon don't know what they're talking ebout. They say that games are too difficult for the nsers, which just is not true II you had a geme that wasn't difficult you'd put it down after the first 5 minutes. Without difficulty, where s the challenge?

You might play a game once and not get very far in it but it you've got any guts then a fow hours later you'd have another try, and get a bit further. If you could complete a game in one session then it was not

worth buying in the first place.

Most people like a challenge. If this wasn't true than why are games like The Bard's Talo sarias, Last Minja series, Elde and Blood Money so popular? Games players may well range from the lazy to the fanatic, but it is not always the fanatical playors that send in tips and cheats NOR is it always the lazy players that ask for them.

Any game is a challonge. It's a challenge thrown down by the programmer to beat his game. Dangson Master was one of the best programs ever written and all Alan Hughes can do is to abandon it become he couldn't be bothered to map all the mazes and find all the keys. What does he want? To have it ell handed to him on a silver platter?

I think it's time he stopped burying his head in the sand and looked around at what's going on in the world. Games designers have to live just like the rest of us. They don't design games just for the sake of it They design games that they, often helped by the buying brend of the software market, think are going to make the public buy thor particular product. If that means creeting games with a challenge then that's what they create. If Alan Highes bothered opening his eyes in his local softwere store he would see that there are games that cater for all sections of the software market, and a lot of them are fun as well as challenging

On the other hand. I agree that software horses could do more in the way of offering help. Quito often everyone comes across a problem in a game, whether it's an adventine, Role-playing game or whatever, that they can't had a way round isn't if rice for someone to help you onl with your particular problem enabling you to get further into the game. I'm on the Adventure Helpline in ACE and I feel quite happy. to help people out with their problems because I know how it feels to be stuck in a game. But em I doing some of the software honse's work for them?

If you can't tecs a challenge then it's time to give up. The ball's in your court Alan.

> Jim Laver, Herts Game Designers 1

Alan Hughes

I would like to enswer Alan Hughes' lofter in the Saptember issue. I agroe with much Alan said but I feel he goveralises too much. The sort of games that are found in arcades are too hard and those of us who do not have the lenacity of a herdaned arcade gamer are often unable to get into their home computer equivalents. Most games also lack real depth, by which I meen vertation at any level

Now consider the pricing - at £25 for an Arriga geme we have already paid for between 125 and 250 gamos in an aicade. After 3 games into the arcade people like Alan may have decided that the game is not for him, but with his home computer he is shick with over

However strategy war games have already tound the answer I asked someone about Vuican once. He told me he thought it was really easy as he could always boal the computer. When pressed further, however, he revealed that he knew little of the subtlety hidden in the programming, which meens that the computer (or human) hed to use different strategies as a player got better so as you progressed more things came to light and it was more fun.

I commend Alan for mentioning Svent Service. This game has 4 levels of difficulty and 8 submannes, environment, enemy, changes, 6 missions and 5 tours of duty. The score table is based on promotion for tonnage sunk which in turn is based on the combination of the above difficulties. A player could pick a low rabing and still get high on the table if he sirks enough if you picked a high rabing, very little tonnage gets you on the table

If a 48K computer can come up with enough variation to keep us occupied is if too much to ask that a 512K computer should produce

better, all over £20 a game.

Gareth Foy, Belfest

Then while I was reading through Issue 24 of Ace and in it there was an advert by Supervision Electronics which surprised me because they were selling a Nintendo 12 bit console! Is this true? Finally I heard from a friend that there is going to be a 16 bit PC Enemet! So can you pleesa put me out of the mist and if you can recommend me a console

B S Dhatri, Hampstead

The Franks FM Towns is the baest you're talking about, but ils not available you As for chance, it's always advisable to save your cash for e machine that's (a) in the shops and (b) well-supported The 12-bit Nintendo sounds like a typo error somothing we know all about here at ACE, eh?

everyone can share in this brain child "Bul senously Eolks, THANKSE

A Sinclair, Gregwock

P.S Why not have an ACE READ-ERS CHALLANGE whore your EDI-TOR could show us how good he is all games playing against us mear mortals.

I'm surprised that you should have missed last month's ACE Readers Challenge, sel by the editor for discerning readers. Called Sool the Misornit, il attracted a record entry. See the panel for more details. The Software League sornds a great srina...

LOVE AT FIRST SIGHT MINUS



puter called Eaw of the West, I love this computer game and would be very much obliged. Nick Higton,

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The Fulitsu FM Towns SINCLAIR'S

FIRST LETTER! I have been briging ACE from Issue one and never have I seen such a well presented magazine. But you already know this. Never have I been templed to write before. Yes I'm one of these 'never written before typos' but I have rust had this great brainwave. After purchasing Kick-off for my Arrega and getting themped off the computer everytime I got a few friends round and we played ige 2 hours solld in our own leagne Everyone agreed it was e greal afternoon and expensive Then it hill me, why not share the experience with local computer players and start a local league with either software or trooby prizes to the winners and runners up? "CALL THE NEWS OF THE WORLD' And maybe if we have enough people interested we could involve other towns or even city's, after all PBM games must have started somewhere. And it

must have sounded daft at first Pleese could you tell mo what you think of this and you expert years and criticisms on this subrect. If you think it's a good idea or would like more into please call me and puril this letter so that just cuary about this woman Hair El-Fatima, bull I haven't met hou either. If you should see her, gel her phone number and lat me know. I'd do the same with Law of

the West..

met, how can you be in love? I'm

GET THIS, MUM I pwn a CPC 464 which I want to sell and get an Armga 500 or Atan ST but my mum is so bu nul of it that she doesn't know one end of a computer from the other Please lust say something - enviring that will make her change her mind and lat me carry out my

plen.

A. Swindalls, Witishire

Don't lot the little brat bully you ake this, main Force feed him with Ferley's rusks until he drifts rato inconsciousness, then get out to the shops, grab yoursolf an ST or Arryza (both equally good buys and streets ehead of the CPC) and when he recovers consciousness, chan the fittle begun to his old Amstrad while you have a bill of fun

Gregwock

CE READyour EDIy good he

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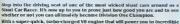
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speeds, and long-travel suspension that enables you to sook up the humps, your car really is an assessme projectile. The tracks are Intally out of this world. Bainfed corners that renable you to pull gi, undusting bumps that three your car monotortallably from side in side and honge range that cataput three your car incontrollable and the side on much time althouse, you could almost qualify for a pilot's Ucence! Statlet it out on the track against other computer controlled rivals, such as,

Dare Devil and Road Hog. Exce and jump so fast that your car starts to break up under the strain and then accelerale even more. There's no prizes for being second best in this game—It's all or onthing.

Stant Car Racer — dn you think you could be up there with the best?

Short Car is ulterly brilliant and offers advention-pumping,
you urranion with sheed action that It has been empossed for





Stunt Car Racer is available for ST, Amiga, PC, Spectrum and Commodore 64





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il Stealey - the Wild man of smulahons software, pilot extraordinaire, all-American, all-everything really, has - I can EXCLUSIVELY REVEAL- made the first mistake on the slippery slope to rock, run, and bankruptcy....He's started appearing in his own aublicity videos. Said promo - for the 'quite soon' to be

released on PC MT Tank - has Wild Bill diessed in his combat togs, reading somewhat haltingly, yet strangely compellingly, from an autocue, exiciling the virtues of Tank. One is immediately reminded of so many American TV ads of car salesman flogging then new and quality used cars at low, low prices.

Yet as the promo goes on and the action moves onto a screen. Bill starts ad tiching a commentary on the action. Now the guy really starts getting into it and genuine enthusiasm abounds as the missiles fly and 'Red Force' starts taking damage.

And there you have part of the secret of the success of Microprose. Bill Stealey is into games, bigtime. There are heads of companies that are into coding. Heads of companies that are into cash flow Heads of companies that are into sticking the boot into other heads of companies. But how many guys at the lop are really into the games themselves - with an almost fanalical devotion? Not a lot chum.



global warming doesn't uslet, huh?) It's cold and set in an isolated con munity of humankind. Shame there's a beddy that's trying to spoll things, Just as well you, as leader of the Peace Keepers, you can recruit, order about and manipulets the inhabitants of this world. No - It's not Lords of Midwight with snewsh but assect it to be in the shops late in '89.

fanatioism that is almost exclusively American and it's no wonder Microprose are producing great games night now (check out F15 Strike Eagle in this issue).

Mil Tank Command, not out (again on PC) full September, IST and Armga back and of '89) looks like the most detailed tactical battlefield simulation ever to hill a home computer. The Microprose in-house 3-D graphics system is excellent - but that is only half of it. The different scenarios have you operating a tank platoon of feur in concert with other friendly forces: mechanised infantry, artifery, an strike, cheoper support. Modern warfare is a complex business - so is M1 Tank Close to completion, this one look like it's gol

Combine this with the kind of single minded

more meal on it than a 16az porterhouse. Yum. varré Microcrose UK haven't

been standing still either despite the poor reception of the new Mocro-Status and Micro-Style labels. With the accuration of the Telecom brands, it looks like there's a certain excess of fabeling down Tetbury way, if anything Stif. there is some good software in the works.

Geoff Ciammond's Start Car on the ST was reviewed last month, but we neglected to mention (slap our wrists) the head-to-head version which has you play ing against another person. via a serial link Yahoo! Slows the thing down a tad, but it's worth it. This head-to-head function should be on the Armen too, Expect other versions - Spectrum. 64, and PC later in this year...

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SENTINE



good thing for Microprose, called Tower of Baber Inevitebly, TOB is going to be TOB is a fresh and innovative game

deserves better treatment

with you controlling remote draids who have to complete different lasks on each Unified Field Theory is about numbers. TOB is complex - but my opinion is that anyone that went ape over, say, Senone - which includes the most sophisticated level designor I've seen on any

FOOTBALL CRAZY?

There are a hell of a lot of tootle gamea about – and you want to know why? Footle selle, that'a what. But what about the gamea?

Allegedly, even something as noff as Roy of the Rovers writially files off the shelves in Boots and a garme as fab as Matchday & Lion Ritman - come back to home computing... all is forguest?) significantly deplates the world supply of magnetic media when released.

supply of magnetic mean when released. You'll have noticed the trend to try and licence named tootballers onto games and there's a lot of logs on that, after all, certain players – particularly England caps – have fol lowings, even if they move clubs. Even if you used to hate Spurs, Hoddle was obviously a genus (ducks down behald high substantial)

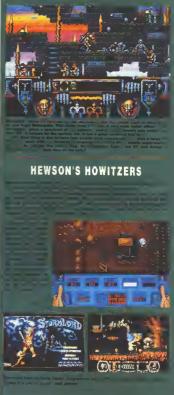


object to avoid volley of broken bottles). But licensing a train? Slightly more nsky if you ask me First amounted – if my memory serves me correctly – was Livenpool from Grand Slam. Now if appears that Kinsals, the software arm of development house. Teque

have got the Icence to do a Manchester United game for the next three seasons,
Teque do , of course, do a lot of work in the conversion line, for Grand Siam. Any minor embarrassment here?

forming how couldy if equels Tony Neutronia and Grad Stain's Supplem Half are offered to the beauty feet at the beauty please. By probably red. First out only the probable of the post of the post of the probable of the pro

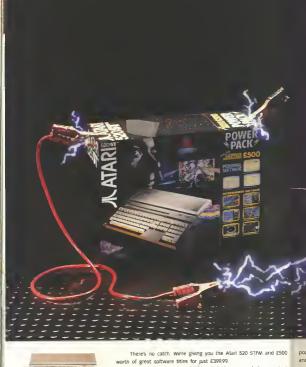














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MEAN MOTHER!

JOHN COOK DISCOVERS A NEW ARCADE BOARD WITH 2048 SPRITE

ow is a game physically stored on a convol? On ROM as a rule, incorpor rated into a POB (Proted Curcut, Board) that is declared to that game. That is, if you took the ROM chaps out of one game and transferred them into the societs of another, chances are all you'd get is an enterpaining bring and a hele in your personal cash flow. There is a measure of standards staten how.

There is a measure of standardisation holyaver—the majority of PCBs have an input/foutput of joyshik, video and sound, conforming to an industry standard called — JAMMA This means that PCBs are portable from cabinet to cabinet — as all colonel combinations are rigged in to JAMMA specification.

All very woll — but if an operator finds that Allen Genocide is stacking off on the brisings and wants to install the brand new Vesawan Bloodbuth, he still has to buy a whole new PCB to fit in the old cabinet. Expensive, eth For a brand spenking new state-of-the-art job, we are taking semething in the range of £500-700.

The proce tag is not too simprising – games are big-time expensive to develop, but more importantly, they are now becoming hardware intensive as the manufacturiers throw more and more shoon at the boards to make them even the more faster and fabliser than ever before.

the more raster and radoer than ever partner.

The trade is aware that this price tag is a little on the high side and has developed some strategies to try and bring the price of the games down, while keeping the standard up

Capcom has tried to get around this problem with its new CP System Board (more about this Rttle worder next month incrientally) by having a standard base mother board and designing in the possibility for changing the



Crackdown, System 24

game by simply changing the secondary boards, so cutting down the manufacturing costs. This's one approach. Soga have tried something different with its System 24.

The System 24 mother board comes in a special 25° month, two player, there fore but the cabined — and if y get casts an impressive spec. Two 65000 control the show, but they have considerable hardware support, with hardware sprince; time 22498 and fartness sorten soldtong, these materials of the special player and one of the special player and sold player. The special player of BAM plais a 256K ROM and you have on another with the till adaptives of these World.

But, as they say, that's not all – the secret to System 24 is that the games are downloaded into the machine on 3.5" disc. Therefore, the theory goes, instead of buying a new board for a new game, you buy a disc (plus a security chip., you, a donglet. Cheaper than all those chips, to the downside, the basic system fiself is not chap.



Garnes produced on System 24 to date haven't been that good - Scrambo Sparts fordnary 1942 clones, Gan Ground Infinguing top down combact/strategy gamed and the much more commercial Crack Down Isee pcl. However, more are on the way - a goll game called Supermasters is the next - and as the

trv)...

files

have

OF THE ROBOT MONSTERS

Abari Gamos have always been good for a faugh. Torque in cheek games like Toolon's and APB have proved that in the past, with disbrictive graphits and a fouch of the absurd thrown for good measure. Its fatest, Escape from the Planet of the Robot Monsters carries on it that treation — this time activacting the union.



Escape from the planet of the rebot monsters



from the come beek scill genre

The scant? Jake Isod with sunglessed and Duke (blonde on-surfer) — Phyers One and Two — have to beam down to Planet X where ext Replains are holding captive thousands of himmal staves and making them assemble a nobot army that is destined funiess you can do something super-force: to stop 10 to destroy the Earth.

Mo, I'd Nuke the place – but ever the humantanans – the Yanks have you zapping about the place, taking out different britids of Robot, with ray gun, committing acts of wordon vandalism on the way. There's no question FETPOTRM is out?

The style of game is ono more familiar to owners of home computer than areade freaks – being in isometine 3-D. That takes is bit of getting used to, but the game plays well, and the antinated artics of the two dudes will, more than likely, fix a grin on your face as you dash about the love's, likerating

enslaved bimbos.
There are three sections to the game – this main isometric bit, an end-of-level monater that looks like the Daddy of those little gris in the old Simash mislant morth advertis plus another inter level bonus bit where you have to drive your speeder through a maze. So there's a bit of sometry that is the speeder through a maze. So there's a bit of sometry too.

A fun game that you'll find a refreshing change for the plethora of beat em' ups and Nemess clones. Enloy!

Advanced Computer Entertainment

24 to dale ble Spints Githreune d and the g (see pic) goff game and as the ystem, the

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WINNING RUN

Now here's a funny thing. Winning Run was previewed at this January's ATEI Show like main trade show for the European Com-op industry)but units are only now comine into general circulation. There's only one comment to make

Vamco

here. Whatever you do - gel on this machine! Hard Driver' was certainly a breakthrough product in terms of programming technique filled polygons. Warring Run takes a similar technique (Namco call it the "Polygoniser") and makes it much faster, smoother, better, if you have any soul, ofter a few goes on this masterpiece, you will beg to have its children. It really is that good

OK, so it's a racing game. A Formula One smulater even. But using the fastest filled polygon graphic system in the Universe. With the best race driving model in the Linverse. With the best "throw your breakfast around" sit-in



unit in the Universe. In other words we think you'll like it

At the start up you have two options - Easy (3 Speed) or Technical (7 Speed) Start out on Easy, but real men eventually get to reach Techricel and at that time the car takes on all the properties of a Formula One beastle. Not easy lo control, John. No slamming the foot to the floor all the way around here!



Even so, Wisning Rus is still a very playable and accessible game - with a host of touches that blatantly show off the superlative technical achievement of the unit. See those wheels that's no sprite, they're made up of lots of little polys. So are all the other cars. See the palate fade up through the colours from background to foreground - just as if they were coming out of the haze. Wow!

Some things are better experienced than described on paper. Winning Run is one of these things. Suffice to say it is the ultimate corrop driving expenence to date. Play if

Therks this month go to all at Deith Lessure. Paul Ashley at Brent Leisure and fast but not least, Keyn "Hard Driver" Williams at Electrocolot

HI-TECH DIRTFOX

Nemoc's next release using the technology it's developed for the fab games Asseut and Metal Hawk is a driving effort called Dirtlox, Can't tell if it e any good yet, but we should be taking that classic 'in-depth' look next month.

EXTENDED

ACE gossip from the coin-op closet...

Y SPY

After Secret Agent from Data East Jest month, now we have SPY from Konami-Special Project Y has you plus a mate kicking and shooting your way onto the New Years Honours List, fighting for truth and democracy (yawn).

Data East's SPY..



ARCH RIVALS Arch Rivals is a new baskethall game

from Data East - and it plays as well as it looks. Combine this with a very distinctive - and wacky - graphics epproach and you get a very attractive game indeed. And you don't have to be 7'6" to be eny good at it, either.

Arch Rivals



RASTAN SAGA CONTD. The one all you kiddles at heart have

been weiting for, I bet - Rastan Sega II. This one takes Restan Sega 1 that teeny bit further - the graphics are better for a start and the gameolay. although nothing startlingly new, is good. Worth the odd heroic 10e.

Reston Sage St













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PSYGNOSIS





You're really up against it this time. Those revolting robots have finally upped and Someone's got to stop it before it all gets out of hand. I mean, you just can't have bloodhiristy Cyborg assassine roaming the alreets of Done City and expect the citizens to put up with it. Who on earth is going to sort out the meas? You guessed Fortunately, you are just a little bit on the special side. You are Stryx, the product of

Multi-directional free formet weepon usage

turned their horrbly powerful weapons on their kind human masters

Large playfield for even more ection.

Designed with smell fully animated characters from Garven Corbatt, the artist who brought you the classic hit

Project Alpha Secure, the meanest fighting, smartest thinking machine ever in vented Half-man, hat-robot, you are the business, the only one who can stop those

You'll have to work hard, though, blasting hordes of the revolting creatures (such e sad waste of screp metal) and rescuing the keys to the Lifeforce.

So, Stryx, you'd better get your jet pack on for some high level robot stomping through the immensely complex underground world of the Dome cities. It is a tough essign-

AMIGA/ATARI ST £19.95

Screen Shots from the Atari ST Version

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knobs. You car goes w The motorb the two troller r

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GAMES PEOPLE PLAY

THE REAL THING

The Konix console is here, is this the ultimate games machine we've all been waiting for?

ou know vorice in for something out of the ordinery as soon as you get your hands on the Konn console. The unit is large compared to other consoles, but lightweight and, due to its compact design, it almost feels smaller, yet the abundance of knobs, interfaces, and expansion ports means you can take five minutes just finding out whell goes where It's an excelling process.

The Konox is a racing car, an aeroplane, e moferbike - it's what you make it. The Ushaped base has a spindle running between the two straights of the U and the mein controiler rests on a column attached to the somdie. This controller can be pulled towards you er profest away from you. A three-way clutch release knob on the left arm (newed from the frontl of the U base determines whether the centre column remains locked or is allowed to

swivel between two positions.

Feur control modes ere possible, em, motorbike, helicopter, and seroplane. Between them, these cover just about every simulation program you're likely to tackly, although we thought the omission of a penscope was bad news fer Microprose in car mode the control pilar remans locked. The steering wheel is pulled off for aereplane mode and the central pilar allowed to move between two locations. For motorbike mode the control paller is pushed forward and locked while the handelbars are produced by swiveling the handgrips.

Helicoples mode involves laying the central column flat and connecting

another controller. This isn't supplied. but will be eveilable as an add-on. Particularly clever is the finddes

er' in the central column which can be used by programmers to produce tactile feedback Another neal design feature is the way the firebuttons on the steering wheel engage with the handlebar buttons when the wheel is engaged

- a simple mechanical solution that avoids the need for electrical interfecing between the wheel and the main unit.

Push the controller forward and your craft rises, pull the centralier towards you end your craft descends; crash and the controller judders. Never believe have air combel and racme gemes had the chance to be se realistic. Unfortnnetely, Theonly software we were able to lest on the machine (see panels throughout this feature) did not make maximum use of the control possibilities, though there may be some nutcases who would like to play Last Ninge II with using the ecroplane controller

ROCK AND ROLL YEARS

it was Wyn Holloway, Konix boss and designer extraordinelre, who onginally thought up a design for a radical new game controller. He set his angineers to work on some electronics to DOWN IT.

Enter Cembridge-based trie Martin Brannan, Ben Cheese, and John Methleson (known collectively as Flare Technology) whose prototype Flame One was exclusively reported in ACE Issue 11 Flare needed a company to mass produce its machine after approaching several hard ware menufacturers like Alan and Amstred, Konox expressed an Interest

After regresting a 16-bit processor, larger coloni palette and even gicater chip Integretion, Flare and the Konk engineers came up with the hardware Bocause there's no key-

board or in-built lenguage in the Konix, programmers have to use POS sys

tems to squirt date Info the console during development A gang al five Birmingham University graduates -Chris Gibbs, Fred Gill. Martin Green, Jon Steale, James Tormount - wrote the

low-level drivers thell aneble the PDS to commonicate with the Konix development system in addition. The ATD lads (Attenbon to Detell created en art and two sound peckages to help pro-

grammers convert existing file formats (Dagas, Neochrome IFF, sound samples and the like) to something the Konix can cape with



ACE breaks the naws about the Flare One...

JOY DIVISION

More conventional control possibilities are availeble, however On the same arm as the threeway clutch are joystick poils 1 and 2. These accept standard poysticks for control of tradihonel-style platform gernes, arcade adventures and the like. Since most early games will be cenversions of existing hits and will consuquently regare traditional ignisticks to onerate them this seems fairly essential

However, there's more to these joystick ports than meets the eye. Two Konix machines - one powered and the other not - can be connected liggether to two-player action. Joystick port 1 on the powered master machine is connected wa a lead to joystick port 2 on the secand console. The second machine ects simply as a very complex joystek. Unfortunately, you can'll attach a Konst console to your micro and use it as the ultimate/most expensive geme controller



We not our hands on a pre-grad version of Mey Dine's Hammerfist. The game featurns several graphic scanaries which, mbined with large sprillae and brilliantly drawn heckgrounds, simply wouldn't have been possible on another machina. The feel of the software len't much dif-ferent then their running on an ST or es Amige, except for the speed - wh mindbogglingt

Another next design point here: the doubleroystick port is actually a single 25-pm D conpector with some of the oins removed, further cutting production costs. Other machine manufactorers might take this up.

Incidentally, joystick port 1 will be used by the helicopter controller (when it appears) and port 2 will be able to accept a keypad. This latter point could be a vital leature for the Konix in future as it would ellow alphanumeric entry. something other consoles keep promising but are always slow on delivering. This is particufarly important for the Konix, since the hardwere is strong enough to support a highly compley flight simulator or similar program, and as anyone knows these need more than simple mechanical control - you really do need keyboard entry to cope with all the parameters dunna flight

On the subject of geme controllers, a pedal unit comes with the Konix console. This plugs into the back of this console and comprises two pedals. Each pedal contains two microswitches; one localed at the top and the other at the bottom of the pedal, and the unit has a responsive feel to it. The programmer must decide how best to use the pedals, but typical applications could be a brake and eccelerator in a racing game or left and right controis for a lank's catapillar tracks

The console's right arm houses Start and Select buttons and a lever that can be used in vangus ways. Programmers can delect the position of the controller and could, for instance, use it es a throttle, gearchange lever or weapons selector. Firther evidence of clever design, the position of the lever all start up determines the default volume level for music end sound effects.



ATD's Art peckage: the palette on the right piyes you some idee of the enormous range of colours sysilable...

INSIDE STORY

If you've had a peak of the circuit board Inside elmost any computer you will have discovered that it virtually tills the inside of the machine's case Because there's not much room Inside the Konx console. the circuit board hasn't oot any chace but to be small Unbelievably the board is Ittle bigger than the doublesided drive (7.25 by 4.75 inches). And the companent court is extraordinanty low Forget very large ecale Inte gration - the Konix design meant ultra large scale inte gration had to be employed, Just about everything of any importance is contained In one chip sound and graphies handling, disk con-Iroler, bitter ROM, last RAM, arithmetic end logic unit, control ports. It's a monster 160-pin slab of slicon known es an ASIC (explication specific inte-

grated circuit). Apart from the ASIC there's 256K of RAM on two pseudo-static memory chips (pseudo because the chips have their own on board refresh umil) and en 8086 processor clocked et 6MHz This 16 bil processor is slightly rednindant. The origand hardware design leaturned an 8-bit processor. periectly adequate given the power of the chips it is working with, but Kontx wanted the 16-bit cachet and the developers geve it

The video controller Inside the ASIC is capable al three resolutions 256 by 200 pixels usino 256 calours, 512 by 200 using 16 colonis, 256 by 200 using 16 colours. The colourful low resolution screen uses up 50K of RAM - each pixel laking up one byte. While theil makes for last screen operations, if does mean thell e large chunk al memory is unevoldably need

BYTE THE BULLET The low ras byte per pixel mode will probably be the Invourte for games programmers ramply because graphics manipulations are easy end last. A typical ST or Amine screen is made up of four bitplanes. Each byte all a tytolane corresponds to e row all eight pixels on screen. The video chip has to combine information held in the same area of each bitplane to find out the colour pi en individuel pixel. It is an incredible performones which requires land reads just to find out whet is actually stored in one localian on the screen. All this is just one guick simple operatron with the Konix's video controller 512 by 200 pixel mode



also uses up 50K ol memory, However, In this case each byle looks after two adjacent pixels. The third mode is the most economic only requiring 25K of RAM Ansin, every nybble takes asre of one poxel

Coleur is distermined by a 12 bit palette. The number of combinations you can fit into a 12-bit register is 4096. Even though the screen modes are compare lively chunky, a palette of 4096 colours means that some very line sheding lepossible - particularly when 255 colours ere used. There reelly isn't any reason why yon sharld have to put up with chanky graphics. Good anti-aliesing techniques will

II you re not concerned at losing colours - end. leankly, it gets tricky trying to find uses for 256 of them - The screen can be sold into ersee of different modes. The Konix lakes this further than other machines you can set each byte of screen memory to be either one low-res or two high-res pixels. The passi billies are mindbogoling

For performing operalions on chanks of memory there's e 16-bit bitter that can move needy SMbytes of memory in a second or two 50K screens every Irame

refresh But it's not just conventional memory moving that makes this bitter soe cial; if the screen is set up correctly the chip can perform collision detection and depth-sorting tasks autometically

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PUMP UP THE VOLUME

The most Impressive portion at the ASIC Is The RISC-technology digital signal processor (DSP) RISC lechnology is else used in the ARchimedes and involves processor design thet, insteed of performing a leage number of very complex operations (as the 68000 can), offers a smeller number at very simple oper affigns - but performe them at very high speeds. The DSP can move a

3D object consisting of 3000 vertices 50 limes every second. Although the DSP's clock speed is 'only 12MHz (12 million cycles or operations per second). while e typical 68000 Instruction takes four, eight or 12 cycles to execute, a DSP instruction only takes

The DSP also has a 16bit 12 million instructions per second (MIP) anthmetic and logic unit. Multiplicalions cen be calculated over 50 times laster than the 58000 in an ST or Amida

Because of its process ing speed the DSP could be used extensively for methsheavy operations 3D ani mations, say By combining the power of the blitter end the DSP (is possible to calculete and displey 3D rotations el amazing speeds The DSP is elso in

cherge all generating sound A ROM look-up table helps it synthesise FM sounds. But that's just one type of noise - samples can also he used And these can be anything up to 14 bit in quality Not quite 16-bit CD sound, but close enough You can emulete virtually any type of sound generator so long as you write the drivers. Yes, it's nice. Even more so when you realise it is capable of 10-channel maybe more - sound In steren

olisi BA

RAM IT HOME

Unite other game consider whose software commands and other form of memory candificance, machine includes in 3.5-inch dopitification with the deposition of the deposition of the deposition of the machine shard ware, access to saved othat is possible white a significant in the deposition of the depos

ACTIX in conjunction with firmware designars attention To Detail, recken to have come up with a disk format that will defined reackers and commercial purates but naturally they're being coy about revealing details. The upper limit price point for games has been set at \$14.99 - almost hall the price of existing console games.

Two modeful features portful at the back of the controls provide connections for everything from power to perspicate. However is supplied was a power pack. It's a pily this couldn't been placed out of sight install the Console's causig — unfortunately mechanical and electronic parts are to biame for the lack of norm and these would have been senious haid dissipation problems. All Jain DNI Allan ST-late connector is used to supply the video signal to say SRB biness/Scart months. There's also a model.



Playing Minile II on the Konile is on expectsaced Converted by ATO, the parts literality scorbes across the screen Although ity scorbes across the screen Although the softwere doesn' make us Although seldicated controllers you'll have to wrall less the next System 3 Konix release for that II has several fraitures that couldn't come on eny other machine, - aspecially has Hickering, cellour graduated werey panels at the bottons let of the screen.

later socket for sending the output to a TV. Sound is sent through a 3,5mm sterreg jack. An 8dm DN exist for plugging in peripherals the the light gun or moving chair. Finally, there's an expression stol for an extra 512K of memory or game cartridges.

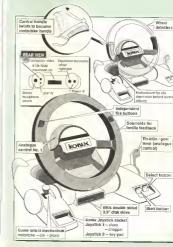
That, then, is what the Korne console offices elemally. It's a compact nert labout 15' deep and almost as wided in bough plastic and superity designed in fact most people on a doubtletake when they see if with the sterring, column issed since it's hard to believe that allyone could if a molfare-board inside, but then thinks the others side of the story. See the pused on the right for lid details.

BACK TO REALITY

its very casy to get carried away by the Konck's specifications, particularly when reading through them for the first time. When you sid down and work out exactly whal's going on you readise that, while unquestionably owerful, the ASIC has to do a hell of a lot. The DSP in particular must generate sound and perform 30 transformations. Nather are livent on mo-



Minjail Books like it is going to clean up on controls seem more than it did on home comparts. Sydema 3 boss BMAT Clear is extertic about his may deal to bunch the game for the Nistenda. With potential sales of a million until in America and the fact that the design of the Nising zerms is ideally similed to consolar he has every right to be. Meanwhile, Hinjail do not hot Acreti tooles stanning. More colours on screen, blind-to-be and the control of the control of the Nising zerms is clearly make it is every and generalized in the control of the control of the Nising zero is considered in the control of the Nising zero is considered in the Control of the Nising zero is considered in the Nising zero in the Ni



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Sound control: surrent cound get softwere is still quite primitive as far as graphical presentation is concarned, but the results are vary impressive, aspecially where samples are concarned.

cessor time. The various timings quoted so far only give an indication of whell each component is capable of when nothing else is happening. A fully blown game might only use 16 colours on screen to reserve memory, the DSP would have to be restricted to producing three or four-channel sound and the number of polygons that could be rotated would be brought down to eround 50 a frame.

The Korex console is in its infancy, the first games to appear won't stretch the herdware and may not use the control mechanism to it full - and will probably look and feel little better than something on an ST or Amige in lact, several programmers are porting graphics across from existing 16-bit machines But don't despair, if the Kontx is capable of looking and sounding as good as an Amiga now, imagine what you'll be playing in six months time

And the price? Still not fixed as we went to press, but a tad over £200, with the first machines in the shops over the three months.

PROGRAMMERS SPEAK

The Konix has received mixed reactions from the softwere industry - perhaps a reflection of our British lendency to slap off anything we do well. From the beginning, however, Mark Cate of System 3 has emerged as chief Korex evangelist. Chiding less enthusiastic members of the UK softwere trade Cele rails. They are being """ to him (Wyn Hollowey, boss of Kono). What do they want? Do they want the Japenesa to completely take over the basiness and dictate to us what we can publish, where we can publish if , and how many nnits we are allowed to self

All tirms that sign up to do a game for the Minth System pay £2,000 for a development let. The money is payed back as soon as the game is delivered. Duplication of the disks le handled by Konix themselves with a grammics of zero pracy thanks to a built in security device. No restrictions are placed on developing the Konix title for other systems if the soft ware house so desiree - unlike Nintendo, for example, who insist any title developed for their games console must be theirs end theirs alone.

This is all multi-channel music to the sens of the software developers. But there is a lily In the efficient if the mechine is so mervellous why does it need conversions from lesser machines to prove its worth? Where is all the original Konix software? The enswer is that the 'Konkosky of the titles will still shine through. Ocean's Run The Geuntlet for exemple

ublises the Meta System's variety of controls - with the player changing from steering wheel, to joystick, to flight controls to drive the various craft that the player must handle in the game Argonaut's Bikers - which will be pecked with the Konix has also been designed spiridle

ically for the powerful driving manoeuvrability of the Multi System controller. Algonaut are also working on a varsion of Starglider II - code-named 'Revenge of Sterglider' again specifically coded to make the most of the Konx helicopter controller. Check out the Soft ware Schednie box for other titles under development

Meanwhile, the big boys in softwere publishing are sliengely quiel on the subject. Rod Causers, bass of Adavision, told ACE 'We have a publishing relationship with Vivid linages, so in e sense we are involved in Konix development Cousene hopes that the Konix will succeed 'We wish them well. Conceptually the mechine is excellent'. But this excellence has not been sufficient for Activision to convert any of their own label littles for the machine Despite the good wishes Consens states 'No Activison titles are currently under development for the Konst. At US Gold Geoff Brown states firmly that there are no correct clans for the company to develop Konix games. But Konix software manager Jon Dean remains confident "One aim is to have twenty four quality titles available for the Multi System within twelve months of launch."

Nick Speakman, spokesman for Binary Design

There's no question that the custom chips sie very powerful, but they require a lot of progremming briefi to get anything out them. The screen handling Isn't as last es we anticipaled it to be. But then when something is hyped out of all proportion it never is as good as you expect if to be - take Paiman, for example.

Jeff Minter, LLamasolt

I can't see major coin-op conversions like R-Type being particularly well implemented on the Konox. You want to interact with the machine's superb geme controls, not just waggle same loystick

Brien Pollock, Lugatron My only concern is memory, or lack of it. For Instance, in the game I'm writing I am using six channel FM synthesised sound. Now theil takes up a hell of e lot of mamory, I couldn't usefully fill any more samples, and that's sad.

Chris Waish, Argonoul

Polygon-based games like Starglider III are going to be easy to program. The machine is geared up to totaling masses of vertices and incredible rates. It's as though the designers all the machine were obsessed with producing something theil could shift polygons quickly

THE ACE VERDICT Although more expensive than when first

announced, currently due to be ground at 'gver £200', the Konix could make a very attractive this Christmes. In the mid-term. the noty competing machines are likely to be the Sege 16-bit machine or the Fujitsu FM Towns, neither of which is planned for sale in the UK notil next year (ii of all). The Konix is Butish, superbly

designed, and extremely powerful Provided the softwere base shapes up, we have no heddeton in recommending it. The company expect demand to outstrip supply before Christmes, so if you see one on the shell. Ihink twice before passmg by

SOFTWARE SCHEDULE

Here's a short checklist of games currently under development for the Konix and due to appear before the beginning of 1990.

Bikers (comes free with the Argonani console). Kanix Chass

Manchester United FC Krysals Mr Dos Wild Bide Electrocoin

Revenge of Strighder (working bbe) Argonaul Binary Design Rotox Run the Gaustiel Осеал ODE Saltra Smulstor

Losotron Super Ski Simulator Microids Tunnel of Doom (working

tille) Vendetta System 3



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Logetren's Starray - screenshot shows the current state of devalopment of the Konix version. We can't west

Computer shopping is fun at the Computer Shopper Show!

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GAMES GET MEAN...

ACE DEBATES THE RECENT ADVANCES IN PROGRAMMING POWER

Readers' letters over the test few issues have been suggesting that gemes are getting too difficult, flight sims too complex, PRO's too unifriendly, in expendit where even Chess Grandmasters have to resign in the face of mighty silicon opponents, have the programmers left the players behind? Andy Wilton visits the Computer Olympiad and saks whether might in eight.

kay, what's the oldest computer game in the world? If you think it's game in the world? If you think it's game in the world? If you plump for Adventure or Star Teles your plump for Adventure or Star Teles you've still make you plump for Adventure it's chess on the other hand, was yourself two passes and a put on the back. Computer chess pre-dates those other games by so long it sets in things.

Computers were taking on humans across that black and white board in the 1950 at the building blocks were laid over certificated and the process of the process of computer chess were last set out by Profession Coare Sharron, an American materians materians over 40 years ago. Danger Programma & Computer for Program part of the process of the process

All modern chess programs are based our the cleas in that 1949 paper, but this object mean standards of play paper, to this clean these been large introvements in programming techniques since the "Mos, and advisorable large in brushave gover that threshold came in quite brood!" so the same bases structure of congram can now play a very maint game to the program of the same bases structure of the program of the same bases structure of the program of the same bases structure of the same structure of the same than the program of progr

playing programs from around the world, the Olympiad drew an impressive 85 silicon contestants to the ballroom of London's Park Lame Hotel. Chess was by no means the only game in town: there were confests in a dozen other boardgames, from friendly old backgammon to the formidable full-sized Go, plus some flerce competition for bridge and domnozes medias.

All this pives the world's too boardgame programmes a chance to comes notes, of-cust techniques and above all test their creations against the business (completed oppositions pives, and the last Ohympiad the results aren't always to their filling, as it turned out every night of the week-long contest, itams of programmes world aller not regard their pives of the last their programmes worked late into the right lying to firsh-line their entires. Some programs and allering legos in performance from one



the 1918 Ge tournament. The fermidable game of strategic insight proved a bit toe much for the UK teams: they placed seventh and tenth in a field of ten.

day to the next, as the pressure of competition showed up embarrassing but fixable weaknesses.

TAKE THE MONEY

This will to win sun't just the computer equivated of Opprops copin - these are implatemagly large sums of money at stake here. The Go competition, for example, also served as the European heat of Acer's World Computer Go Champinonib, as event with a great deal of pure money attached. As well as butscares for trivel to the Tugole finds, Acer have offered a mord-sunbing USSI 4 Million for the first computer Go system to beat a himsan champion.

Nobody's offering that land of crish for a smilar chess sichemented, but in a way the potential financial rewards here are even grader. The isolaring contenders, it strangives, were all computes prototypes for future versions of commercial chess machines. The incentive to win was obvious; best the compettors in the Olympack, and you can have the result on your adverts when the finished machine goes on sale. The context were all the way to the wire, with the Dutch Rebel guidbling gold. The dead heat for salver was eventually resolved in flavour of the Anglo-German Mephasto, with Fidelity taking bionze back home to the States. If you want to buy shares in a tew chess machine companies, look no fur ther.

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YES, BUT WHY? Money is one thing, but most of the contestants are in it for more complex reasons, and it's here that we start to stumble across the power-programming mentality that spills over into the games market, with possibly undesirable effects. We're talking about competition here: the possibity that you can actually fast your programming abilities in a fair contest against a worthy opponent. Computer chess intrigues the man in the street because it lets him engage a machine in mental combat: it infragues a programmer, on the other hand, because it lets him engage other himan beings in mental combat. This is all very well, but although there's a fascination for the onlooker at the Olympiad, the novely soon weers off, and in its place some more depressing thoughts crop up. Watching a dozen chess programs skip it out, you're left with a strong impression of wasted effort.

It's all a bit like the early 80%, when you could uath easily like us a obcen made bitles for the Spectrum and find that they were all the same game. This not to say there was any bornwarp of code going on quite the reverse frug coding et a dozen Space feasivers and exem Packkan spottis or whatever, and every one had been written from scratch, quite undependently of the others. Whall was so straining was the amount of work that had been wasted on re-ewenting that software wheel. Nobody

SOFT BUT STRONG

The Oyspect is very defensely allocal enhancement that from hardware, In tact, therein an advanced hardware and poly connectionate to use in the Organica, as a list of the machines entered makes releveding reading. About had of them were PC cones manifestanted makes releveding prediction, and the organical poly the reversal approach by the reversal polysome for Corporation of Talkers. The first set flow end-casely add or the residence of the control of the residence o

With a spread as vade as that you'd expect there to be some kind of handicapong system, but in tact the organicers don't feel one was necessary. It is true that both of the Sma did with their respective tournaments, explained the Osympiade crestor David Levy "That

was down to software rather then hardware though: I'm quite sure those progrems would have won whatever they were running on. You might still teel that the SUN's purpose-designad SPARC processor had a little bit to do with lhose victories, easily outstripping the Archie's blistering ARM chip as it does, but hardware power really isn't everything. Victory in the Renju (e bit like zero-grewty Connect Four! wont to a Soviet program running on that Dragon. nothing creaky about the software, it seems



Mino's running on a Commodoro 64...What's yours on?

30 Advanced Computer Entertainment

needs a dozan PacMan games: it they're all competantly written then any one of them.

Sinca the averaga amateur chess player could be soundly beaten by 90% of the computer chess gamas on the market, it seems like there's a Packharastyle glut here. Rebel may will be bette then Melphasty, but if Mechasty can anaihitata you at five seconds a move, the difference is really a bit academic.

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Computer Olympias's creater, Bayld Larry, make a het in 1962 that to computer could beat Min in a chose match within 1972 he collected the 1972 he 1972

There's rudning wrong with this compression of menticity of its key where a belonge; an emerative of its half is - but unfortunately it does a straight over into manabase and into the straight of the strength of the sign over in the size of their sooning tools agreed an absorbed on the basis of their sooning tools almost all of their colorists in themself, sound good, during the other colorists in themself, sound good, during their distributions of the size of the size

Desir foo look all if more the inchmological open of when, there are shift shinchcomps in abovered chees program may be in six allabovered chees program may be in six alland in competition with other chees programs, but for the rest of in or is still another chass program. Again, would you buy all another should be allowed the chees the competition of the controllers of the chees the chees and the controllers of the cheese the cheese of the cheese samples loosed than ever before 'Or more colluss conduction.' This said that set that you may be considered in the cheese that you may be considered in the cheese of the soft program and the cheese of the cheese and sound one to good without samples.

BRANCHING OUT

With the exception of Scrabble, all boundaries played at the Operation are the pulsars to the community of t

you do.)
Lesing audio backgammon, the games of parallel p

most common reason for

mperfect

hance the exclusion of backgammon.

Those stiniturities mean that, deepte the differences in rules, the games are all programmed in much the same way the each case, the composer works out the best move by considering ways that the board cook look after several moves have been made. Ill mortals have been made. Ill mortals have been made. Ill mortals.

ly makin every processe move from the course posttion, every maply as opponent could make and so on, searching for a confinenational search of the country of the leaves it in the best postion on possible. In deling this the program assumes that both it and its opporant make that best moves evaluate to them that each have to improve as own position at the other's separes, in other words: This 'Ill I'd what the last of what the best on what the w

does whel's best for him.,

process is called a minimax

of search, Along with alphabeta pruning - a way of reducing the time wasted ii, on bud moves - minimax searching is the buckbone of two-player games pro-

Tournament rules and hnman patience pul limits on the time a computer can spend on this search, The 'deeper' a program can can look ahead from the current position), the better it will play, but deep nearches take much lenger. The crucial factor here is the 'branching lacter' of the that is, the typical number of moves available to a pieyer Where a game has a low branching factor - less than 10, say - the program can expect to look as many as a dozen moves into the future Larger branching factors force the program to make do with a shallow search, and thus play a

SOME EXAMPLES:

CHESS

with a medium to high branching factor a chess player typically has over 30 moves open to him - site partie can't excell be analy partie can't excell be analy asked in depth However, recessmital to look a long way almost where paced are most chess programs conuntate on these, and ority take a relation took at quielles poshore. This key take, almo spread to most control parties of parties of the parties of parties parties of parties part

DRAUGHTS

On an 8x8 board in particular draughts has a tow enough branching lactor to quite deep scarchae. Even on the larger continedad (10x19) and Cemedian (12x12) boards the rules on compulsory capture tend to limit a player's available moves quite drastpally. As a rusuli, modern draughts programs lend to be quite strong in human terms

SHOG

Played on a 9x9 board, this chess like Japanese game is greatly complicated by the ability to 'drop' captured pieces that is, to but them The board and use them Once you've captured a few pieces, polential 'dron' moves alone can run lo board moves as well this for and makes intelligent computer play very difficult al the Olympiad The Jepanese either didn I know about it or weren't interestguage barrier it was difficult to tell which, Olympiad erganiser Devid Lavy

GO Clanduch

Flendishly complex es it is, the Japanese don't rate Shogl as a truly intellectual game for that they have the las more difficult Go. Played down form on a 9x9 board. and thereby gaining ownership of territory Players take it in lum to place stones' - the game's uniform, featureless playing places on the board's orld. of control, it's subife very strategic and - with a branching factor that starts difficult to program. Again, there were no Japanese entries at the Olympiad hid Tarwari had several: unlike Shogi, Go is also played in

words, nodes the name of Wei-Chl. Oddy enough the medalitats on the full-size board were Polish, Dutch and Swiss, with the strongust Talwanese program relegated to 18th.

As for the challenge of a tough game, you can always burn down the difficulty when you find the game's too hard - but in that case, what was the post in having that strength there in the first place? West't it just a rich herma? Getting buck to chess, take the extreme cash.

of a leading dedicated machine, tha Novag Super Expert. Raymond Keene, ona of the Olympiad's organisers, recently played 59 games against this Super Expert: he won 40 of them, drew 7 and lists 12. Raymond Keena is bent, drew 7 and lists 12. Raymond Keena is an International Chess Granionaster II the



This US entry, Naurop did have one slight advantage in the hackgammen Itions It was running on a hyperfast Sun workstation! There may not be ony staroids in computer athletics, but Sun's reduced lestruction-set SPARC chine come pretty clene.

Super Expert took 12 games off him, how many casual players are going to use even a fraction of its power? The time is rapidly annegacing where all the normal man in the street can do is pray for a "System Error", or melon

SO WHAT?

This drive for the ultimate chess-playing program stopped benefitting us mere mortals some years ago, but that's not the whole point. More importantly, there are plenty of other games that the wasted programming effort corld be applied to. It's like that PacMan clone business, what was so painful about that duplication of effort was the way it took up resources that were badly needed elsewhere All those programmers with the know-how to handle sprites, sound and collision detection were wasting their time copying an existing standard when they could have been creating ongnal games. If you take a dozen PacMan look-alikes, you're actually looking at eleven russed opportunities for original, interesting gamentay.

A WHOLE NEW BOARDGAME?

What we need is a bit of that chiess effort redirected to other promising games, or even new game designs altogether. Why, for instance, doesn't someone program and sell a micro wersion of Chinese Chess, or its Japanese counterpart Shogs? Why aren't the shops full of Colossus Go or Sargon Award It's true that these games lack the ready-made UK market ol chass or bridge - the droves of people who already play the games in their wooden or cardboard forms - but that shouldn't stop software houses making money out of them. After all, the only Shogi game on the market would smely do better than an average-selling Chess game.

There's no need to go that far afield for suitable games. Over in the States at the moment, the Amea game Distant Armes is building itself a following among chess buffs. It's actually a compendium of chess variants and precursors, starting with the ancient Indian game Shaturange and working across the Midde East (and Middle Ages) to the European form settled on as a world standard today It's easy to understand the appeal of these games: while they're similar enough to medem chass to be easily learnable, they're different enough In make you work out your own strategies. In particular they discard the tedicus 'opening book' learning ancient Persian books on Shatrant are rare things indeed - making casual play far more rewarding. Wouldn't you rather

rely on skill than parrot-learning?

If programs like Distant Armies catch on in a big way, it won't be the first time money's been made gut of resurrected games. Probably the world's most programed boardgame after chess is the one that Japanese game moguls Arear Company inc market rarder the name Othello. Under its original name of Reversi the game did moderately well in lale-Victorian England, but with its new name and some heavy marketing those distinctive fip-over discs made Anjar an absolute fortune. How many other equally good bul now lorgotten games could do just as well? Mark my words, someone could yel make a killing out of Faene

Check As for new game designs, purpose-written boardgames are just as promising for computer success. Take Mastertronic's excellent 16bit think-em-up Infection. While it's childsplay to learn the rules of the game, figuring out a water-tight set of tactics could take months. For a simple game, it really is terrifyingly addic bve stuff. The same goes for Anolasoft's Think! a tascinating skiding tile game rereleased by Firebird Silver at a desperately reasonable £1.99. What's particularly striking about both games is the way that, simple though they both are, neither game would be really practical if played on an actual real-life board. The mechanism of colour transfer in Infection or of tile movement in Thirtel would be fiendishly difficult to implement outside a comouter screen. (Oddly enough, you could say almost exactly the same thing about Reversit turning over all those tiles is lar easier on screen than in real life.)

GETTING PHYSICAL indeed, the future of computers as game opponents could well turn on their dual ability to act as playing opponents. Quite simply, you can present games clearly on screen that are difficult or impractical in life. An obvious example is the point in a chess game where one player has two queens on the board. In real life, players are forced to improvise with upside-down rooks. On screen it's the simplest thing in the world for the computer to create another oneen, making the actual position on the board a good deal clearer.

Similarly the Japanese game Shogi looks confusing to Westerners because of the way both 'black' and 'while' sets of pieces are actually the same colour. This is essential in real

that, for instance, a black Lance may be taken and subsequently returned to the board as a white piece. A computer version of Shogi could colour the sets differently, changing colours

automatically when pieces are captured Imagine how much more important this 'computer-as- board' factor contd be for 3D games. The obvious way to play such games is with a 'stack' of boards mounted one above the other like bers of a wedding cake. This is difficuit enough to handle in real life with a game as small as noughts and crosses, but a slack the size you'd need for chess (8 high) or Go 119 high) would be something also again. Even seeing what was going on would be impossible, never mind trying to actually move the pieces limaginative 3D display techniques along with cross-sectional views in different planes could make solid chess or draughts games perfectly teasible in computer form, and moving praces would be simplicity itself.

There's another important thing both Infec tion and Trivik! have in common: they are enormous fun in a way that no game of chess, draughts or backgammon could be for the average Enropean or American gamesplayer. What's so great is the actual learning process. As understanding gradually dawns you can leel truly clever, knowing that you've hauled your self up from total ignorance to beat that machine on its own terms. If you got the same buzz out of learning chass or draughts, the chances are you can hardly remember it now: with new purpose-written games you could get that same thrill of discovery time and again. This doesn't apply just to think-emups

either. Many of the games we play nowadays are becoming increasingly complex, difficult to play, and - at the same time - depressingly familiar. It's the same programmer versus player confrontation that you get in chess, but in the long run it's doubtful whether the player can ever win. Shoot-em-ups like Blood Money on the Amiga are both technically impressive and fiendishly difficult - both achievements that stand as testimony to the programmer's art but the actual scenarios are often little different than a dozen other programs Challenge (as Jun Laver points out on the letter pages this month) is abviously important, so is technical skill, but for the player that sense of discovery and excrement when confronted by the truly prignal is also essential, if game designers began to put its much effort into new scenarios. as they do into technical achievement, we

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This plucky British programming team crammed the complex game of Chinese Che-into a 46K Spectrum, but to me avail: the PC-based Talwanese program next do: stemped all over their brave little effort.





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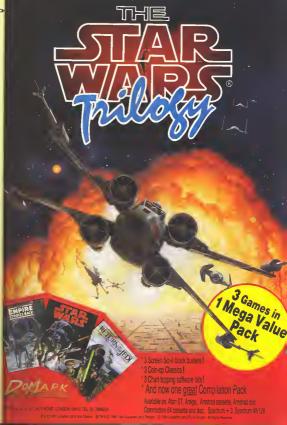
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When we heard that men who drive Rovers get more rumpy pumpy, we were intrigued but not too surprised. But when we discovered that Activision's new flight simulator was being programmed by the brilliant Vektor Graphics, we sent the brilliant Phil South straight up to Leeds to see it.

ou've seen one flight simulator, you've seen fram all, right? Well, no in facil, because not until I was mut ed up to sea a preview of Bomber itself did I believe a computer could fly Activision wanted it, so Vektor did it, because as you may or may nol know. Vektor Grafix are one of the country's leading exponents of 3D computer graphics. They had the technology, so why not see what it can REALLY do. And they did 12 months ago the design was finalised, but still certain things needed doing to it. John Lewis, co-director of Vektor Grafix and designer of Bombar talked me through a few things that they wanted from Bomber. For a start they wanted round jels, round cannons and round wheels. Eh? "Nobody does that, you know, I don't want

to see flippin' hexagonal wheels. I'm a simulator fan and I want to see REALISM. None of this verky movement and small amounts of polygons. I want round wheels, hundreds of polygens per object and smooth lifelike movemonf * And Bomber has it. The ability to move all around the 'world' that has been mapped



inside the computer was asserbal. Freedom of movement around your arcraft is also a feature, allowing Bomber to show off all its smooth fiving action

"Tha truck with the design was finding a fight simulator angle that hadn't been done before All the sms before have either been commercial, Lear jobs and Cessnas, or they've been fighlers. So I got thinking, the most of the really excrting modern jets are these multi-role combat arcraft. So you take aircraft like the Tomado, the FILLL and the Saab Viggen, stuff like that, nobody's done simulators of those. thought it would be a great idea to concentrate on 'ground attack', but with air defensa capabiity, which is what bombers are all about. They're all about carrying a great shipload of bombs to a target, bombing if, but then having the ability to escape at maximum speed. And that's brilliant 'cause you've got the basi of both worlds *

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All the aircraft in Bomber were chosen with this strategic low-level and air-to-air excitement in mind. The game features the British Tomado, German Tornado, F-4 Phantom, Saab Viggen, F-15 Strike Eagle, F-111, and a first for this program, the Russian MiG 27 This is tha only chence you'll get to fly one of thase, rather than just blow it out of the sky.

Like all the other aircraft in the gama, you can switch planes mid-flight, refuel and run on presel missions, or even design your own for you or your friends to play. Every possible detail has been included, and any bit of any plane that can be animated has been, right down to the variable incidence wings and the



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VEKTOR GRAFIX

A couple of years ago, John Leans were working for another software publisher, and kis most people he thought he confid do batter on les own But quite unlike other people he actually did go it alone, or rather form a company with fissed and programmer Andy Craven which procued its own product.

The move was prompted by the 3D graphics roubnes that Andy Craven and his friend Danny Gallagher had designed "These guys came to me and showed ma these amazing 3D vector graphics on the 8 bit machines," said John. "Totally blew everything else away, they did. What they'd done was basically the Star Wars game, and so when I heard that Domark had the license I knew we had to get together" And so the Star Wars game was born, and so was the Hedeling Vaktor Grafix. Andy ran the company while John still worked for this other pub-Isher, but after the success of Star Wars and Empire Stokes Back, John gurt his day job to win Vektor Grafox full hone



Since March this year, the firm has re-located into a brand spanking new converted brevcry bonse in the certier of Lineds, and now also has 4 products for Achesion in the works.

which Bomber is the first.
So what is the future for 3D graphics and Vektor themselves, John? "What I don't want to do is give away what we've got in inmid. For

beyond the obvious there are things that you can do, not moying away from the leasure area completely, but in senious computing there's an awful foll you can do with a powerful 3D graphics system."

those who can see

axperimental work. but how about gaming? "Wall there's a new idaa we're work ing on, totally away from 30 work. It's more in the line of what you might call 'totally interactive movies' Saving more than that would give too much away, but wart and see Real soon now The other

So

thing is our development system, which we've written in association with our transids and neighbours in 3D, Real Time It's called SnAson, it runs on the PC and it's really dead good, and much better than PDS We'll be launching it at the PC Show in September, so come along and have a look."



HERE'S YOUR CHANCE!!

We've got together with Activision and Vektor Grafix to bring you a superb graza competition. Ready³ Well. when we were up lalking to John Lewis, he menbored that both he and Andy were taking Flying Lessons, Only in the interests at research, you understand. Don't think there's any FUN in it for them on no. So that's the deal Answer these admittedly hard questions on military aviation, and you could wer £600 worth of tree flying lessons, plus a copy of ACE, Phory Court, 30-32 FarBomber for your computer
20 numers up will also get a
3AU No employees of Activson, Vektor Graphics or

Okay, here are the questions:

1. When was the first air transportable kydregen bomb dropped and where?

2. Who first flew across the channel?

3. Which commercial air-

Iner has a droopy nose??

Answers on a postcard before October 31st 1989 to Bomber Competition.

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LABLITHE PIC - Predicted Interest Curve - le the most sophisticated reviewing

Octob The ourse is divided into six sections, indicating the player's advanatin level after one minute, one hour, one day, one week, one month, and one year. But this tolk you an awful tol then just what your interest level will be at any given time (although that's obviously important in itself).

For example, a high one minute rating means that the came must look lantastic and get you all excited from the word go. That meens it's probably a good game to show off to the naighbours - after all, they probably aren't going to pay attention for much more than a minute, after which they'll go back to drinking coffee and making rude remarks about Those swful hostle games the boys play these days'.

The minute, hour, and day ratings can tell you a lot about a game loo. III there's e dip here, followed by a rise, you've got a game that may take a bit of getting into - not recommended if you like to get down to something quick and easy Alternatively, the graphics may put you off for a while until the gameplay starts to gup. Check out the PIC comment for more details.

Finally, you've got the month and year ratings. The better a pame holds up here the more desarring it is

of your hard sumed cash. PIC curve construction takes a lot of playing on the part of ACE reviewers PIC curve analysis ie an ert in Asalf The reward is knowing lust what you're defind when you make the decision to spleth out on Midant Misc. donald Gellysburgers... or F15 Strike Eagle II - Just one of this month's excellent exemples oil today's software



This YGA graduated horizon is just one of the signs of technical Innovation in flight simulators, Check out F15 II over the page...

DON'T FORGET THE UPDATES! We don't just review the latest releases. We also check out conversions of pid games onto new formats. So there could well be a recent conversion for

THE ACE REVIEWING SYSTEM

PIC CURVES erod of true. The curvi is

GRAPHICS

actually erroy. Note that ACE

FUN FACYOR Baeicsly a measure of mindremarkably eddictive. Most corrags score well here for enstant satisfaction either fun or nitellizent - they

ACF BATING from the area under the PIC rating a name will not only have to be used addictive but

900+ A classo gene

\$00-899 A piperb gonee 700-799 Still highly

600-699 The Tex

zone, where it tands to be very good if you like that

500-599 This still had good things going for it, but 400-499 Problems

300-399 Not only is

200-299 Trings ere 100-199 ZX81 games

Under 100 Nother anything ever does, it would

VERSION BOXES If there is no box for your THE TEAM Includes Steve Cooke,

one of the original editors through his ithirry other previ

Eugene Lacey is the men games magazine, C&VG, or nd the time had come to magazine As one of Britains

purvalets his word is LAW Cleran Brennan should Julian Rignell, formerly UK

histore tables on Brighton

Mike Pattenden is the editor of Commodore Uses - sa be pushl to know what he s talking about when it comes to CE4 stuff But he knows a thing or two about the Amiga. and is no dummy when d pomes to other machines Mark Patterson has put in

YOUR machine...This month Updates are on pages 80-81.

two and a half years of

We don't review enything until we are 100% certain that we've got it right. We've checked them out thoroughly - now you can too.

STRIKE EAGLE II

MICROPOSE spend a night at Sierra Hotel

POSSIBLY one of the most poolar possibility on the possibility of the possibilities, compute in previously light of models as the common all one year of the possibilities are so advanced the LUSE* are using then to transport of the possibilities are so advanced the LUSE* are using then to transport possibilities are so advanced the LUSE* are using then to transport of the possibilities are so advanced the LUSE* are using them to transport of the possibilities are so advanced the LUSE* are using the unit possibilities are so advanced to the LUSE* are using the longer to the possibilities are so advanced to the longer to the surface of the longer to the use of the surface of the longer to the user to be used to the longer to the user to contrain your term surface of the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to the longer to the user to be used to be used to the longer to the longer to the user to be used to

To clear up any confusion. Style Eagle 8 is a light/combal smulator that offers you like chance to fly simulated strike missions inrough a choice of wer zones, ranging from Libya (an easy nide due to their outstelled equipment of buope where you go not a safety of the pressure of the property of the pressure of the property of the pressure of the p

duck to the most effective defensive aguipment there is. In effect, SE II is an updated version of F-

19, kinderd, the erreas you fit over are defined to the allocementor of F18, as or the entering. The first self difference is that the place is a firm of an of F18 of F, of F2 of F

Another thing that has been simplified is the weapons system Unlike Statel. Bomber, you shays carry the same payload oil three highest of weapon AM-120A AMPAM medium range as to or guided imssies, AMPAM social many missions and AGM-FGD Mayerick self-aground states, missile. Each on he roaded for five at the bouch of a button, and selecting a weapon allotherically selects the correct tades weapon allotherically selects the correct tades.

setting and onemy bracking mode. All three missiles are Vire and lorget', meaning all you have to do is Yook on' the missile to a ceillain enemy fleetp tracking the enemy until if comes into large of the currently selected missile, all which point you are told a "missile look" is now effectived and ones fire to lesseith the missile.

In CGA, EGA or Hercules, the game looks the same as F-19, which is no bad thing Lols of multi-faceted filled vectors and the like, but in VGA or MCGA. This has to be the hest look ing flight simulator yet. Just the sheer vanety of views alone are enough to warrant a high mark, with missile view, three sorts of external view, and the option to see yourself from your entitry's point of view. The best thing about it. however, is the incredible use of calour. If you remember Archipelagos on the Arriga, you'll recall the very claves misting effect on the honzon. SE I has that very same effect, and it is extremely effective. The feeling of depth is incredible. Add to that the brilliant sensation of speed and you've really gol something Though maybe not as smooth as Velocity's

1BI

Jetighter, F15 is every bit as lest, and you really notice if on low-level light. Easily the breadthriang effect is the missile wave when you've launched something at the ground. The missiles fly much faster than your plane, so the speed in their is exhibitating, but it's when the messile picks up speed and stalls plummeting toxed of the termination.

So why pick this over Falcace in terms of being a flight smollor. Falcace has the edge, but even so, this is steal for a begiver, as it is very easy to fix and it's a lot of 1 and Also, experienced buffs are going to get a lot of fin smollor of this smollor of the sample of the large number of missions involved and the virially of sceneries in letters of accusancy, if may never must him pic filters of accusancy, if may never match up to the impair Falcach, but I can still see myself positing in more film at few hours on this one

Tony Dillon

THE ROLL OF HONOUR



Fighter Pilot - Spectrum
One of the neary Spectrum flight simulators to appear of that time, the only
difference heinig that lith one actually
gave you decent combet. The scenary
was simpler a law dote, yellow greend,
blue sky and the anemy planes were
marchy triengles, but have was aspenlining really levolving shoul that little
O.l. buttle field.



Gussable - Old September 1 central action facilities he depoted the fitted exclora, superiority feet fitted exclora, superiority feet fitted exclora, superiority for a Old. Microproce managed lot fit on bench of a let onle one little 5 16th disk fitted excess to the superiority of the superiority



Felicon Mission Disk - SY/Amipo
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The cream of the creap as fat. After
The cream of the cream of the cream
animaters, Mirrorect comes up with earl
only a new healthe listed for you to the
vant, but a whole was to fight single
handedly protecting no lear than three
lines of destones while three-ting the
and still played out with some of the
tast at tilled vectors yet.

util il comes d missie, at lock' is now he missile. game looks d thing Lots the like, but heer variety rrard a high s of external of from your ong about it, clour If you mige, you'll feel on the ffect, and it of depth is

sensation of ung as Velocity's st, and you Easily the new when ground The lane, so the 's when the plummeting char In terms of the edge, mer, as it's un Also, a lot of fun ber of misenenes. In ratch up to

see myself on this one Tory Offen

PC VERSION

lecredible. The graphics are amazinaty last and the feeling of distance is enough to scare even the least agrophobic amongst us. Add to that vanets all exmepter and enough challange to keep

IG FACTOR 6 FUN FACTOR ACE RATING 912

	RELEASE	вох	
mar mo	004.05-6		

19m PC	134,3398	OUT NOT
OTHER V	ERSIOHS	TBA
PREDIC	TED INTER	EST CURVE
***		- 1
MICHIEL MA		William.



TECHNO PORN!

OK, so sust how fest is this bessi? Well, you can check the freme rete for whatevei mechine vou eie running on es follows Hil the ALT end F keys, which will print the number of Jiffies per 4 frames on the HUD. Take this number end divide it by the Hz rate of your graphics card; 60 Hz for EGA and CGA, 50 Hz for Hercules Monn, and 70 Hz for MCGA. This gives you seconds per frame. Invert it end you will get littmes per second for your machine configuration. Nifty sh?

The memory taken varies from machine to mechine. On a Tandy it takes 384K of memory while on an MCGA machine it takes 512k.

The program took approximately 1.5 man yeers to develop with many people working on it Andy Hallis was the main programmes with Sid Meier Bruce Shelley with Max Remington designed the 3d objects while Bruce alone designed the worlds. Mike Haire did most of the normal art with Murray Taylor assisting. Alan Rolregy along with Chris Taomilno and Russ Copney helped develop game play Briggs wrote the menuel

The MCGA/VGA graduated horizon by distence was designed end imple mented by Andy Hollis and the Oirector mode was designed end implemented by

ACTION SEQUENCE



You've spotted the sneav! Here in on him



That's it, you've get a lock!



As Wild Will Steeley himself would put it, missiles away!

RICK **DANGEROUS**

FIREBIRD breath new life into platform capers

STRANGE name for a super hero -Richard Dangerous - so Firebord have checkened at the Rick' to one if more Hollywood-style credibility, Just in case you're not impressed, he also sports a brown brimmed hall and unshaven chin, looking for all the world like Indiana Jones

Your mission is also an Indvistvle adverture. A calcurful eight page comic included in the box sels the scenano in which, after surviving a bomb attempt in a restaurant where he's supposed to meet Jose to called a map, our hero enters a car chase through the Town in suitably indy style 1930's cars. Next follows a round of fishcufts in a plane, after which Indy (sorry, Richard, Rick, that is) parechutes out and lands in dense jungle. After a skirmish with some 'Goolu' natives, the final panel of this gripping comic shows Rick entening it Temple pursued by a grent ball of rock. On this somewhat familia note the comic ends and the game begins.

There are four separate levels - this may not sound like much but the degree of diatform precision and puzzle solving required to beal each one means Rick's quest is no pushover

There's no puzzling to be had in the first few screens, however, it's just a question of legging it until you can escape that borider After dying several times you will notice that Rick can move night or feft as he falls. This is nseful not just for dodeling the boulders but also for avoiding the spikes that are placed on the bottom of certain caves as man traps

Rick is armed with a gun, several sticks of dynamile, and a big slick which you should use in true colorial tradition to poke the hostile natives in the gut and kill them.

The use of the bombs and gun is graphically cute - and cartoon-like. It's slightly remmiscent of the classic computer game Spy Vs. Say, in which you could place traps for your opponents. Rick Dangerous has a similar feafure with his dynamite. He can light a stick heade an object to clear his path, but he has To leg if away from it first or he may blow himself up into the bargain. Using his various gadgets imports a sort of remote control leel to the use of the toystick. Time factors are cruciel- you mist remember to press the fire button before you move in the direction of a nasty to let fly with a builtet

Dynamite and bullets are limited so Rick must make sure he collects every single cache of these arms as he explores the glatforms. Of particular ment in Rick Dangerous are the puzzles. They emount to much more than smply working out a roote and then leaping with pixel perfect precision to get to your destina-



tion. In Rick Dangerous you have to use the dynamite or your gun strategically to tilt the action in your favorir. This provides a little exercise for your brain as well as you reflexes

As welf as the Temple there is a Pyramid scene. German Army base (more shades of Indy) and the Missile Silo level at the end of the game. Your final objective is shrouded in secrecy throughout the game and revealed in a graphical sequence at the end, which it would be churish to reveal. You Immediate obactives on each level are simply to survive and blest your wey through to the next, solving the tectical problems and blasting the opposition

Ms Alan Highes of Milton Keynes should be particularly pleased with Rick Dangerous. He wrote to ACE last month complaining that there was not enough fun in the latest games. Pure arcade fun is here in abundance. Mi Hughes

and elthough some of the levels are pretty sperse prephically and there are pecasonal lapses in pace, what there is is of a very high standard. From an appalingly unongnal scenano Firebird have hewn a splendid platform

Eugene Lacey

RELEASE BOX ATARI ST AMIGA SPEC 128 AMSTRAD C64/128 £9 99cs • £14 99dk INH PC

AMIGA VERSION

and you are seady to been again. In that respe-

IG FACTOR ACE RATING 890



IT BRIKCS OUT THE BEAST IN YOU! Scorch through the sixes in the most challenges fight of your life. Breath fire giver hordes of attacking creatures from a prehistoric ac · A scorching, rip-roaring light to life death · Pick up bonuses for meda weapons and er va firenow • 8 levels of outse-racing action

ficularly game entimers

DR 7

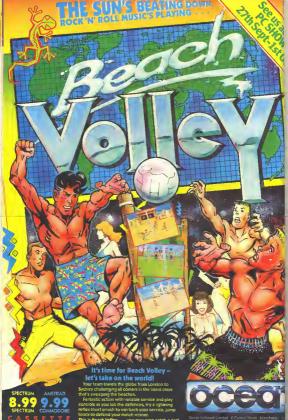
ENGEN

· Exhibitanting and challeng

. Have you got the fighting spirit? Have you got Dragon Spirit?



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AMELIAGE FOR LITTRE ST. MANGA COMMODIFIEM CLASSETTE AND DISC
MINISTRA DUSSETTE LOSS SPECTRAL PS. SPECTRIAL AS



plete thing

STRIDER

USG take it in their stride

WHEN If was released in the arcades at the start of the year Strider became an almost instant contender for conoo of the year Sick graphics, a thumping soundtrack and iols of features soon gave the game the success it warranted - and US Gold

At first plance a run of the mill left to-note scroler, Studer contains many original ideas, tricks, hazards and nashes that come as a complete suprise to the player, the Pointburg that transforms into a giant snake, giant robot gordlas, and super-human Muscovite's, each requires a particular lactic to givercome. All have one thing in common, they take a lot of damage before blowing. The best tactic is to find an area on the screen where they can't hit you, then work you way slowly to them - remembering, however, that there's a time limit

Strides, the main character produces the most amazing array of twists and turns in accordance with the joystick movements and type of tenan. Down sends him on a slide, diagonal and up causes a somersault, and he can have off walts and ceilings with the ard of a hook.

Set in Russia fifty years in the future, The majority of the game is based around the player using Studer's abilities to progress through levels by avoiding hazards, traversing moun-

Armed with an energy basnes which he swings round his head, Stinder can inflict severe damage on all of his enemies. Little satelites can be collected which orbit the play er, destroying everything they louch and adding their own firepower to yours. All of this looked pretty unconvertible, but

Tiertex, the people behind Indiana Jones, were







given the task, and they've done us proud.

After cutting through several waves of Russian troops and their robots, scaling buildings and leaping traps, the first end-of-level nasty is reached, a largish man, rippling with muscles and heli-bent on performing the Kirov ballet on your face tyou're attacked by real ballet dancers later on in the game). When he has been destroyed the screen is reduced to flames from the lop down, wrong out almost everything in the way.

Next comes the interior of the Kremlin. Unfortunately the Polithuro don't take kindly to unwelcome visitors. Seconds later they've transformed into a grant snake desperate to kill you. Once the result of that confrontation has been decided it's off to Sibens-The graphics have been fathfully repro-

duced with good detail and use of colour. The

ST VERSION Very symbol in the sound, graphics and playability decartment with the only real difference being two disks instead of one. A very commendable

GRAPHICS IQ FACTOR 7 **ACE RATING 910**

	RELEASE BOX	
ATARI ST	£19 99dk	OUT NOW
AMIGA	£19 99dk	CUT NOW
SPEC 128	28 99cs - 212 99dk	IMMINENT
AMSTRAD	29 99cs - 214 99dk	OUT NOW
C64/128	E9 99cs + £14 99dk	IMMINENT
IOM PC	£19 99dk	JUMINENT

background graphics are exceptional and although a few backdrops appear to be missing this doesn't affect the teel of the game al all. The main sprite is perfectly drawn, although speed and a few learnes of animation had to be sacrificed owns to computer limitations.

One thing that has been changed is the level of difficulty. Your foes don't take as many hits as before pegging out and some of the jumps have been shortened, reducing the pixel-

precise timing of the arcade game. Complete with funky soundtrack and good stof effects, this is an exceptional conversion of an exceptional game. Packed with levels, features, and just about everything else you could ask for, Studer must surely rank as one

of the greatest arcade conversions ever-Mark Patterson

AMIOA VERSION early self contained on one dek Amiga

IQ FACTOR 7 FUN FACTOR ACE RATING 910

AMSTRAO VERSION

impressive it is. The graphics are well coloured and defined and keep the feet of the same. The only real grope is the weak sound effects 10 FACTOR

> FUN FACTOR ACE RATING 876

ALLFIR



GAMES MACHINE
"TOP SCORE" AWARD
"Grab hold of Voyager as
soon as you can."

"The most atmospheric 3D game you'll ever play." ZZAP "SIZZLER" AWARD. ZZAP 64.



"Dragonninja is fun to play ... well implemented and extremely addictive." ACE MAGAZINE.

DATAEAST





AME A

ATARIST

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AMIGA

ATARI ST

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7 MONTHS AT NO. 1
"This is definitely the best film tie-in to date, and is an utterly superb game in its own right – don't miss it."
C+VG GAME OF THE MONTH – C+VG.

IN A DEFORM ROTURES CORP



"Irresistible . . . an arcadeperfect conversion." ZZAP SIZZLER – ZZAP 64. "A superb game in every respect." C+VG HIT – C+VG.

TAITO CORP



XENON II

IMAGEWORKS' super-smooth scroller

DO you grown with boredom when you hear about yet another verbeatly scrolling shootem-up competing for your hard-earned, or hard-begged, cash? Well if you do, stop it because Xenon it almost here up to the hype, which makes it a very more-save game indeed

So your strap yourself into your Menablaster and off you gifth well go. The shou is a potentially very sophist-cated little lining, but starts off with only a thruster, a blaster and a shield, you've got to earn your orlans on the way. Each of the games line fevuls represents a penod of of Instory, and loggically enoughly you begin in some sort of stone age, flying over the rocky shrutters shanging in sonce. Maspes



And Ihere's Crispin himsell, reedy to sell you any weapen you want - as long ee you've go! Ihe dook.

of beautifully designed alien pastes come swarming down at you and you fill 'em full of lead.

As each crittur is wasted if turns into a flowing bubble that means cash for you lifts in your interests to be as greedy as possible and collect as many bubbles as you can, since cash can be furned into a sumptious variety of each awayons of your two-oper-level stops at Chispin's salop shop (more of this later).

Tokens also appear, giving you extra firepower in your moments of greatest need.

At the end of each of the five levels there

is that old friend, the entirol-level Guardian, to conjure with. These creatures are extremely well-designed, extremely revolting, and extremely hard to kill, each one has to be dealt.

of c

ers



The gient ellen is zapped leaving a of nt anergy giving bubbles in its weke.

with in a different manner, and discovering the right one will cost you many a life.

If you've spent wisely in the weapons shoo.



The ship is now fully aculepted - and swesome in ite fire power. Note the debt to R-Type with the worm appearing from the monsters intestines.



You could be in trouble hers, but then you are throughout the same... stok and join

of course, you'll have a better chance of succass. Some of the extras you can purchase are fairly standard, such as cannon and laser. Others, however, show much more flar - check out the following drone for instance, it's hard to see cuts what it does, but it certainly looks pretty bobbing around behind you. Super Nashwan Power will give you 10 seconds of really salisfying total destruction Get yourself enough cash, or collect enough tokens, and you could find yourself blashing around with three or four extras Iraing behind you.

a levels there

Guardian, to

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	RELEASE I	вох
ATARI ST	£24 99dk	OUT NOW
AHIGA	£24 99dk	IMMNENT
ISH PC	£24 99dk	IMMNENT

ST VERSION One of the profibest games you're likely to see or

the ST this year, and certainly one of the more opproach areade quality, and the sample sound

GRAPHICS	IQ FACTOR	4
AUDIO	FUN FACTOR	

AMIGA VERSION

By fit the best version. The Bomb the Base soundrack that accompanies Xeom II is superb

You can hear every last scratch, yelp, and strick as the sound chip works overtime. Graphics are colourful, smooth and fast. In every department Xengo I stretches the Araga further than any shoot 'em up has ever stretched it befree

GRAPHICS		10	FACTOR	
AUDIO		FUN	FACTOR	
ACE	RAT	ING	91D	



If all this sounds like lamitar stuff - well, it is. There are elements of just about every shoot-em-up you've ever played in Xeron fi. from Space Invaders through to R-Type But. surprisingly enough, this derivative streak

the bits and pieces together in such a professional and stylsh way that you'll just week to graso your

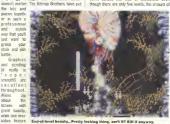
battle. Graphics and scrofree (at really is super smooth? are throughout. Aliens zio shout tho

screen with creat sussity. while one innois the ability to

move backwards off the screen, giving you in effect a greater playing area as well as the chance of another crack at creatures you haven't managed to blast

As an extra there is also a sound track

sampled from Bomb the Bass's 13th Precinct Hip Hop, which sounds pretty dawn good. All in all, Xenon 8 - Megablast is one of the most accomplished shool-emups you're likely to come across this side of Christines. Even



dotal and action in there makes it a stiff chal-

lenge. You'd be doing yourself a disservice if you don't at least give it a play test.

@ Pele Corner

BITMAPS DEPARTURE



something different in their next release Although Xenon lens might like to see the game

Police Academy the Bitmaps want to do some-Ihing new to keep the micrest for ourselves. The new

game will still be an an arcade style game as this is where the Brtmap's believe their best design akille Na 'Il we do another

shoot 'em up it will have to be untike anything that has been done before ' The leading

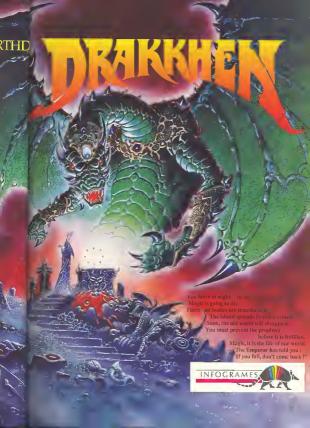
team would lave to do a game for the PC Engine though this is not on the bards at the moment. We are Interested in the hand helds and the sedeen bil consoles but it is e business matter

as to who dels

the develop The Bitmap's are keen to do run and run like a softwere ment systems - and who gets to do gemes for the machines' Eric Brimap told

Advanced Computer Entertainment 51





ATTACK

Blitzkrieg CDS Style

TRADITIONALLY war games table top board games with model landscapes and troops. All calculations were performed with pen, paper and dice CDS have taken the onginal theme one step further and brought in a computer to replace pen and pad The game is centred around four fictional

countries, Armania, Calderon, Kazaldis and Sarapan. None have any real tactical advantage, other than personal taste. However the game does require a minimum of two human players as the computer doesn't control any country - so make sure you bring a friend. The board is divided into four provinces

each soverned by a separate state. Each province features various kinds of scarery such as lorests and villages. Some of the landscape is impassable by any vehicle, or halves your movament rate. Right in the corner of the provinces is the military HQ. This is the main game target for the opposition - when thay arrive here it's game over for whoever lives there. The whole map is overlaid with an hexagonal gnd, each clear and representing one

First thing is setting up the board, Each nlover nucks a team of eight tanks and armoured nars, the strongest bong a Man Battle tank ranging through light tanks right down to Light Amount Cars the weakest units. If there are three players two are allied against the third player who in him pets double the Units Between each of the countries is a demittarised zone where no units can placed until the game starts, otherwise you would be able to start combat night from turn one. In each quadrant,

All calculations are now handled by the computer The first screen it shows is the news screen. Set in the style of a newspaper, one section describes the current situation of the war, another the weather and how it will affect unit movement. This is not a particularly vital screen but it helps to break the routint of the game Then come the individual player turns. The computar will assign your side a number of move ment points which correspond to the hexagonal and on the board. Each unit can move any number of hexes up to the alocated number of movement points (subject to terrain restrictions).

Then comes the fire sequence. A unit can



spaces of an opposing army unit. This again is handled by the computer. It requires the inputting of the distance between mats (1-4) hexes) and the types of unit facing each other. A graphical representation of the battle is thon displayed with the outcome being a mixture of destroyed, damaged or intact between the two units. So it isn't always safe to attack

Finally if you do manage to reach the enemy HQ in one piece you get to select the destroy HO icon (actually it can be activated at any time during the game, but that's cheating? and blow them away, thus winning the game Tank Attack is an onemal concept as far as

other spftware houses go, though not as good as Brian Clough's Football Fortunes CDS's previous computer board game crossover. It doos lack most of the in depth elements and movements which grace the tables of war gamers through the straightforward run and blast tactics used. So if it's just a fun, simple strategy game you're after give this a look in.

Mark Patterson

RELEASE BOX

AMIGA £12 99cs • £14.99dk IMMINENT **SPEC 128** AMSTRAD £12 99cs • £14 99dk IMMINENT £12.99cs - £14 99dk | MMINEN C64/128

AMIGA VERSION

The much screen graphics are produced or a cardo style which gives the game a slightly more light havried view. The software stail is nothing outstanding. It anything gives the impression of cowboy menchandise but when put slong side the board espect

IG FACTOR 7 FUN FACTOR ACE RATING 782

PREDICTED INTEREST CURVE





XENON M E G A B L A S T

in units (12-4) geach other, battle is then a motore of acen the two ck. Or reach the to select the activated at attempt, and the game, apt as far as good as CDS's presower it does

This again is requires the

war ganters and blast tacple strategy wark Patterson

s and move

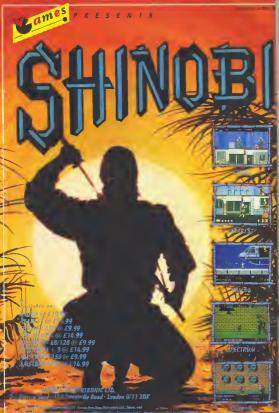
MANENT TRANSMENT

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2 CURVE

ore Tank on then it will wear





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and the two the control of the which A que weak

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57

ACCOLADE'S slam-dunk simulator

REPUTEDLY one of the greatest invention of the basketball itself, the Slammers and the Jammers are at it again. This time it's two teams of six taking part in a three-on-three

You compete with a friend or a computer opponent, and before the malch starts a few lactical decisions have to be made: the length of the grariers (3 to 12 minutes) and exactly which members of the squad are going to play A grick resume of each player's strengths and

weaknesses helps you decide The court is wewed as two awkward flick screen halves. As a result any action in the centre of the conri inevitably becomes confused Ball moves include dribbling, passing, shooling and opportunities for calling offensive and defensive plays. There are two kinds of personal fort and no free throws. Unesnally you don't automotically control the player near est the ball, switching between players manually lends to slow the action down

Anyone keen on extra factical play can pick one of 14 pre-designed offensive plays or create one of their own name the Playmaker

On paper it all sounds pretty sophishicated On court, it's a disappointment. The sorties are poorly defined and serkily animated, play's



no excuse for putting old butterfingers in the team. sport by the Rick-screen action and there isn't

thal much skill required it only takes a couple of minutes to get used to the shooting controls and after that almost every basket you attempt goes in

Il you've always dreamed of huring yoursell up the court in a pair of Lycra shorts, dribble drawne, no-look passing and starn-drawne your way into basketball history, keep on dreaming. Accolade has built up a recurtation for producing top class sports sims. This and one of them.

■ Kiti Horsz



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AMIGA VERSION First looked spines, badly drawn graphics and very

limited sound effects aren't much of a showcase for the Arruga's polential Coupled with unchallenging gameplay, they amount to a pretty пифиске раскаде

IG FACTOR & 2 FUN FACTOR 4 ACE RATING 492



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A record of all your secret transections is kept in a drawer in your dask. Keep haping the opposition

wells without destroying them. The telephone rings periodically to let you know of any new developments and offers of supply contracts; it takes a shrowd mind to work out when to accept one

Oil might not sound like the stuff that the best strategy games are made ol but with so much vanely to the action there's little danger of anyone but the most hardened arcadesters getting bored. There are plenty of detailed touches fyou can even pick the decor of your office), the arcade sequences fit in perfectly and no two games ever turn out exactly the same Rambow Arts, who don't exactly have a fantastic track record in this sort of field, have a taken a very unusual subject, lawshed lots of time and attention on it and come up with an extremely slick, absorbing and ongeral game

RELINE strike black gold

REAL men don't est quiche - they work in the oil business. That doesn't mean encless kangoding with Sue Ellen, alas, instead, it involves coping with flucturing of prices, delivery contracts, sabotage, fire-lighting procedures, keeping an eye on your balance sheet and still staying on top of the competition at the end of the month

Oil Impenum works rather like a very sophisticated version of Monopoly. Four players (human or computer) take consecutive turns, each turn lasts for one calendar month and involves as much wheeler-dealing as you went to cram in it's not a socrable game. As some actions need to be kept secret, human opponents have to keep away from the monitor while verify playing. Competing solo causes fewer arguments You work to one of four objectives transpire

from nichest player after three years trading to acquiring more than 80% of the market share) from the comfort of your office, clicking on a selection of icons to perform different tasks

Your first job is to commission expert studies on the valuativ of different difficids in sucht diflerent regions. Once you've packed one which looks profitable, you can start drilling, busing storage tanks and, eventually, selling your oil. You can consult your balance sheet or the newspeper for the latest oil info at any time.

For budding JRs, there's the option to contract agents to damage an opponent's oil wells, rob a competitor's bank, blackmail oil-purchas me agents or blow up oil tanks. Alternatively, you might want to launch an investigation into any strikes against your own fields. If you're successful, you get compensation in the form of alfields.

Sebotage, telephone messages, and arcade sequences much the action with extra unpredictability. The success of drilling, firefighting and pipe-taying depends on your arcade skills. Three mini-sequences involve you centering and determining the force of your drill, connecting sections of pape in competition with an opponent, and dynamizing ignited oil-

4.	(r.)
	SPERMOT
PRESSURE OF A PROPERTY OF A PR	actor to do

the drilling. DIY is cheaper and usually more successful

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AMIGA VERSION Stick praphics, ever-friendly controls and pleasant

soundtrack combine with a helpful, if slightly ceidly translated, manual to make this extremely

10 FACTOR 5 FUN FACTOR ACE RATING 835 REDICTED INTEREST CURVE



Oil Imperium is full of neet touches like this - just grees the power button to exit the screen.



Trivia - a one player genera knowledge trivia game based on the customary pub-style arcade games. There are a whole range of questions from art and literature to leisure, sport and entertainment and all ere 3 option multiple

With humour, 2 excellent soundtracks, colourful graphics and a fast pece that will ensure you are continually ensure you are continually kept "on the ball", Trivia is the ideal game for all the family and who knows... you might even learn something.

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accept por like the shift nes are made anety to the er of anyone arcadesters

CURVE

CASTLE ARRIOR

A French Revolution as DELPHINE storm Zandor's Castle.



THE conventional Brit view of Galic games is about as narrow as the conventional Brit view of most things beyond our shores. French games are pretty, graphscally 'nice', but when it comes to game play, well.. Well what?

Purple Saturn Day was superb graphically and gameplay wise, as was KULT, Captain Blood and the Armes version of Operation Wolf to name but three

So when you hear that one of our best known companies - famed for their game play - and none other than Palace Software are linking up with Paris-based Delphine software to larnch Castle Warnor you have the right to exped great things of such an entente cor

AMSTRAD VERSIDN Excellent use of Armga's sound facilities. You have on option of sound FX and music and both are excellent. One slightly entoying factor is the relead it does no at the end of each game. Sure-

to these most be some way around this? IQ FACTOR 6

FUN FACTOR ACE RATING 825

The game poens in graphically superb style. You are the warner Edred the Brave who, in a six level challenge, must win a potion from the cull Wizard Zandor, who has poisoned the king - only the polion will save firm. Naturally, like all computer game waards Zandor has demons and monsters aplenty in his employ and you will have to slay a goodly number of these to complete the task

Edred progresses down the scrolling confdor with a loud clumping of feet. The nasties are clawing at him from the wells and edge slowly towards him from the depths of the seemingly endless corndor, Edreri's sword is manipulated by a combination of pressing the gystick button down and moving the arm of the stick through its eight positions. When you successfully slinke one of the flying bats or a clew they disappear in a poff of grey smoke,

Edred doesn't have to kill all of the nashes, though it's more fun if he does and was him extra points. The gameplay here is slightly flowed in that Edned does not always recover quickly enough from swinging his sword to make another parry or swing A bit frustrating this, as just when you think you're warmed up and gizefully frashing the flying bats, you die quite unnecessarily and through no lack of skill on your part.

A couple of large, fireball-spitting nashe have to be taken out in level one if you are b proceed to the next level. This is achieved by swinging the sword at the fireballs and sending them back all the monster. Again, gameplay here could have been better. The sword need to have a sort of crickel bal feel to it for this li work affectively, which if doesn't. If appears a arbitrary choice which fireballs are returned and which aren't - and in any event if on needs two to kill them, which seems far to

There is a welcome change of weapon it level two. You are armed with a spear which you must lob at the the grant dragon who a puarding the entry to the level three (The Sub terraneen River). This is where the leaping let and right comes into its own. This section well animated - Edred really looks as if he is leaping for his life. The Subterranean River smiler to the rapids level in Dragons Lair though not quite as breath taking. Edred has cheld in this level to protect himself from the Stalactities, boulders, and serpents that no up from the swring water to snap at Edred tiny cance. This is a tough and enjoyable leve though most people would prefer to be armed with something a bit more deadly than a sheld

Level Four brings you close to the end of the challenge - and reveals shades of Space Harrier as the highly eclectic nature of the arcade challenge becomes apparent. Edre flies through the slops atop a flying dragon shooting out fireballs all Zandor's most fear beast - the grant dragon Jibba. If he bests th one he facas the final challenge with Zandor II the penultimate level. Dodge the spells cast by the and Wizard as he sats on his floating throat and grab the potion. Now fly back in glory to cure the King's poison.

Sounds easy - but it will take guite a few sessions to beat this little number. Castle Warl nor is a most com-op-like concochon. achieves high levels of graphics, animation and sound but is armed squarely at the game who wants to test his reflexes alone - leaving his intelled for other pursuits or slightly mo cerebral software.

Eugene Lape





spitting nasties ne if you are to is achieved by e sword needs to it for this to y event it only

a spear which dragon who is three (The Subthe leaping left icks as if he is ranean River ragons Lair g Edred has a mself from the pents that rise map at Edred's eniovable level orefer to be e deadly than a

to the and of ades of Space nature of this pparent. Edred flyng dragon -If he bests this with Zandor in scells cast by floating throne ack in glary to

ike quite a few er. Castle Warconcochon II ics, animation, v at the gamer alone - leaving r sightly more

Eugene Lacey





formed for action as my F-16 leaves the runway This time mission is to destroy a battation of tanks. Suddenly, threat. ming - interceptors closing fast! I quickly select doglight we ard arm a Sidewinder. We both fire at the same time -If and a high-g turn out manoeurres his missile. A loud losion tells me he's not so locky



Flying fast and low, I flum my F-16 towards my target. Time to Switch on the ground radar and arm the Jaser-Eurobed Mayericks. I fire six missiles in quick succession, Lantim automatically locking on to each tank. With flak bursting around me I dive for cover and head for home. Approaching base, I contact the tower and request a talkdown for my night landing.

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OF HORUS

LOGOTRON'S Set point in ancient Egypt.

DENTON Designs have dipped into the rich pool of Egyphan mytholgay for this arcade-adventure-cure-shoot-emi-up for Logotron. Here of the tale is Horus - an ancient Egyptim delty who is generally represented as half man, hall hawk. Sel is Horus's uncle and the lyndher of the good King Osins Consumed with praiousy, Sel kills the king and later dismembers his body and scatters the seven pieces of the corpse throughout an

This is where the game takes up the story. Cast as Horus, you must find the seven pieces of papa and reassemble him to not the world of your wicked uncle. Once the body is reassembled the gods will give you extra powers and you can set out to vinguish Set. Your hawkish nature manifests itself as an ability to change

from human to hawk at the touch of a button



Seven emulets can be carried with Horus as he Iravels - from a possible

tweness of the scene-setting. A definite flavour of ancient Egypt comes through in the sounds and practices of the various rooms of the fomb The next positive thing about the game is the



on-screen mapping that unfolds as you explore Punsts (and the editor of the ACE TriT pages) may complain that it spoils the fun, but we reckon it makes the game immediately more satisfying without losing any of the challenge As game-styles develop, it's about time we had a bit more development of the user interface. and on-screen mapping is a start, at least. Why should you have to turn to paper, pens, aud compasses in the computer age?

Amulata are based on the real thing as

discovered in the British Mussum. De ten Designs are back with a bang with a 'shoot 'em up adventure' of rare quality.

To use the map, however, you have to first find the right amulet. This is not easy as there are about therty different ones scattered throughout the morns of the chambers - many of them are hidden by Set to make your lask more difficult. Each amulet offers a different power and you will have to fearn and master all of them if you are to complete the quest. The instructions tell you about some of the

amulets but many are left unexplained for your own experimentation in true arcade-adventure fashion. Horus can only carry seveu objects at a time - so it is important to work out your own becarchy of amulets. The map is of course essential and extra weapons are also extremely useful. The Erog amulet gives Horus a new life. The best amulets to look al, however, are

those that summon the other God's. The Heart amule) summons the god Isis - wife of the King aud Horus' mother appears in a shimmer and then takes away any piece of the body of Osms that you may have collected so lar In the Bunal Chamber. You have to summon lsis each time you recover a piece of body as you can only hold one at a time pending its reassembly. Nice touch this - really makes you teel as if the gods are watching over

Another god who can be made to come down from the heavens is Anubis the god of the dead Acubis will help you in the final conflict with Set

Don't get the engressor that this is just another arcade-advanture, however er. What really spices up the action are the strong elements of shoot/emus throughout the game Horus is armed with



lais appears to take a part of Osirio's hosty off to the Furial Chamb



seum. Den beng with a re quelity. von explore In'T pages) lin, but we dately more

he challenge time we had ser interface, al least. Why r, pens, and have to first asy as there

s scattered nbeis many ke yeni task s a different nd master all some at the de-adventure

n objects at out your own s of course s a new life nowever, are ammon the The Heart as the end he King and She

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ithing over who can be down from Anubis dand area in the final impression

15 - really

el as if the

ist another re, howevsolces un the strong hoof-'am-up ie game. med with



The map is drawn for you as you travel. Why slon't all arcade adventures do this? Pagyrus darls that he souts from his heak at

Set's nashes - other amulets that Set has brought to life and which swirt around the chamber, sapping your energy each time you bump into one True to current shoot-em-up philosophy.

there are certain power-ups that can multiply the rate of fire by up to four times. There is even an R-Type-like satellife in this case a baby tawk that flies alongside Horus, spitting darts at the opposition. Another amulet will give you a constant are of fire - which is more of less essential in some of the tougher cham-

bers. There are also 'smart bomb anulets but as is the nature of these weapons they can

only be used spannely. Linking the chambers is a network of lifts.

Horus must lify to the ground and turn back into a man to use the lifts. He may also need one of The keys dotted around the chambers to operale them. These lifts seem to be the one design fault in the game - and not just because they're anachronistic and would look move at home in a trendy department store than ancient Egypl More importantly, they slow down game-play. It is very easy to madvertently send Horus up or down on a lift when you really meant him to take off, in Harak mode. What makes this worse is that while the lift is working the compuler is drawing the next chamber - so it can take quite a few seconds to get There, and then you have to get all the way On the whole, however, Eye benefits from

design discipline. The programmers slick to their chosen Egyptian theme [hyonehout (aparl from those lifts), resisting the temptation to throw in an alien here and there just because there is enough memory left, and just because that is the wacky, avail-saide kind of gras they Perhaps most important of all, the balance of puzzling and arcade play is jinst right in Eye

of Horus There is no sell way of completing the quest avoiding the ledions repetition of finding objects and using them to gel to that part of the game that still remains to be solved For all its poish, though, Eve of Horus breaks no new ground, it is reminiscent of the old Ultraale Play the Game tiles to: the Spectrum and 64 But those were preal

games and the comparison has to be almost as liattening as it is critical. What Eve does do for the first time is bring well thought-out, excellently programmed carefully designed arcade-adventure to the 16bit machines and with a spot of blasting to bool. There seems no reason why Logotron shouldn't Jannoh a whole range of these - just as Ultimale did.

Eugene Lacey



ST VERSION

the other. The Egyptian style music adds to the strosphere of a game that makes good use of the

IQ FACTOR S FUN FACTOR 2 ACE RATING 885

PREDICTED INTEREST CURVE



Face to lace with the serpent Set. You will need all of your power-ups to see this one off. Kill him and you've won the game

DENTON REVIVAL glider I.II, and Alterburner).

Game development houses are like magazines. They are 'in one minute and out the next. The current tashion leaders are The Bitmap Brothers (Xenon I.II and Speedball), Argonaul (Star

and Graftoold (Uridium, Flying Shark, and Rainbow Islands). Denton Designs used to be tlavour of the month with pames like Shadowlire, Frankle Goes

to Hollywood, and Gift From the Gods amengst then many hits Eye of Horus should racket them back back to the top of the popularity charts

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BLOODWYCH

Image Works introduce two player role playing

DUNGEON MASTER

that marked the reboth of Mirrorsoft, it ended a lackfustre period for the Maxwell owned games house that saw few refeases of any ment. Since Dungeon Master they haven't looked back with a string of hits including Faicon. Speedhall. Oids and TV Sports Footbell. Bloodwych may be the firm's boldest sten since the rebirth began. A game in the style of Dungeon Master from the same company has to be at least as good as its predecessor,



Interaction and movement.

Jirst as in Dunzeon Master moves are implemented by selecting and using icons. There are several of these so & is essential to read the manual thoroughly and master the use of the icons before setting out to complete the game. You have to be prepared to invest 6 bit of time and effort before you will start to derive role playing satisfaction from Bloodwych.

Many strange characters and artifacts are encountered in the quest like the missies that certain characters can use by clicking on the runes in the spell book. A range of spells are available for the heroes to use.

Manipulation of the characters that you encounter in your travels is the key to success in Bloodwych, it is essential to plean as much as you can from them using the trade,bribe. threaten, insult and bribe'. The questioning part of Blacdwych seems to work well. There is a convincing feeling of interacting with the other characters in the game

When you are happy with your team you can then sel out to solve the quest, i.e. zwo Zendick a good seeing to. Certain characters can be placed at strategic points using the Wait' scon. To know what is and what is not a

strategic point a map is essential. The cavernous dungeon corridors of Bloodwych all look very similar and it is easy to wander aimlessly around in circles. View lets you fin between characters - bringing good warriors to the forefront when you encounter one of Zendick's ghorts in some dank forsaken dungeon, or bringing a wizard into the action when a spell is required, Bloodwych has all of the depth, health and

status ratings on characters, icons galore, and detailed graphics that players have come to expect in quality RPG's since Dungeon Master There have indeed been onto a few attempts to out Dungeon Master Dungeon Master, Most of these attempts have been embarrassing fadures. Bloodwych comes closest of all

It is at its best in two player mode. You and your chum against the world just as things were in Gaustiet - but this time in a fully blown role playing game. Not guite in the Dynegon Master class but an absorbing and challenging game in its own right with plenty of its own ongnal ideas.

Eugene Lacey

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ST VERSION

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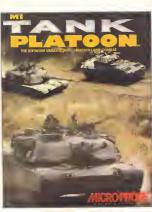
player RPG'ing. The heart of the name.

The game spec promises a great deal more than Dungeon Master, Simultaneous two player fantasy role playing is possible for the first time. You can play as a fearn against the computer or against each other in a race to complete the quest. Each player chapses one of sixteen wizards, adventurers, warners and theres to son them in the quest.

The objective of Bloodwych is to destroy the exil Zendick by finding four crystals and tak sig them to the tower to destroy them. The quest begins in the land of Tredsadwyl where you must first first recruil charapions and collect the tems you will need to complete the quest.



The Bloodwych on drawn by cuit D&D artist Chris Achillies. His first computer original







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ATARI

M1 Tank Platoon is the definite ayed v sch play tween 16 000 acres of rolling, superb 3D terrain allows you to hide yieldend. S

your main tanks, or possibly call in air support in the form of Allaced iu hich tran og, Play a the f alsoxy, ri pazy ba





P15 Strike Eagle II is a whole new concept in computer air warfare. Dogfighting is the name of the game. The air swarms with enemy aircraft. Dice with death as you light your burners and head for the skies Success depends on making the right moves - fast. Super smooth, non-stop action takes place over 250,000 square miles of authentic terrain. Superb, solid-filled polygon-based 3D. graphics makes it feel as though you really are in the thick of the action. Hundreds of options, four difficulty levels and a vast amount of missions and scenarios make F15 Strike Eagle II perfect for dogfighting veterans and novices allke.





SHUFFLEPUCK CAFE

DOMARK/BRODERBUND pucker up...

THERE are some games that promise much more than they actually deliver Broderbund's latest offers a sports simulation of sorts, a Starre sel of opponents, good sound, excellent graphics and plenty of variable potions well manages to be less than the sum total of its parts. The game is Shufflenuck.

which is basically air hockey played without goals. Instead each player has a glass plate between him and the table to defend Should ho or she mass the

buck the glass is shattered and a tect a local The simplicity of the game is specific with a nest scenario

which transports it into a sci-fi selling Played in a cafe somewhere on the furthest reaches of the value, it's a cross between the eazy bar in Star Wars and Millseys, the restaurant at the end of the newerse in Hitchhiker's Guide. regulars are a pretty mixed -ch, inited only by their love of ufflepuck

Wandering into this dive in search of a telephone you find yourself locked in a tournament with easts of the shuffleouck crastes that frequent the bar. The game loads with an arimated still of the locals and you can get into various our-usily faces. Once into a match you can select attacking or delensive modes for the partdies. This involves giving you more bounce from the puck or power in striking. To add extrainterest to the game you can also select a blocker which allows you In nsert an obstacle between you

The set up over, you can start to take on some of the welrdos. Each has a particular character and skill level. All one and there's the bespeciacled wimb Skip Feerey who bears more than a passing resemblance to Woody Alen and is a total pushover, and at the other there's Biff Raunch, a hell's angel with a vile temper in attheen there's an array of opponents including a lounge lizard (yes interally) with a taste for blue

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ASSESSED S TO EACTOR IS

ACE RATING 695



champagne, and Princess Beinwho has a neal mental approach

to the game - she doesn't hit the puck when she serves, sho waves her hand over if In fact much of the variation in

the game comes from the characters you lind sitting all the other and of the table. Their reactions to wrong, losing and letting in goals edd a great deal to the game. Shuffleouck itself is cretty average, something not helped by the lack of a two player option. Air hockey is air hockey no matter how much you try and tart it up. The presentation for Shuf-

Repuck Cafe is excellent, it's good to look al, with large, imaginatively drawn characters. They're next ly animaled too, with good lacial expressions and reactions. The comic touchos are well observed. with some rice moments ~ like when Lexan Smythe-Worthington slumps moter the table, rat-arsed. with a crash after losing. Sound, too, is good with a solid puck sound and a nice sampled smash when you score. In fact that provides much of the appeal of playing a game

The early appeal of good graphics and sound is duled by the limitations of the carmioley Were Shufflepuck one of a number ol games on a multi-sports similation I'd say it was a highlight, but not on its own.

Mke Pattenden



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ALL POINTS BULLETIN

DOMARK send out an All Points Bulletin

IN the ercatic wars consider in the balls for construgate than the racing gene category. There are very sim pickings for sice one place. Gamens who pump dash in lor racing games seek out the lessels, newest, proties maghines around l'ingen engage à good rus at the top stol with APPs — a racing game that added a touch for humour and a copp and rubbers scenario as a hook to the main browness.

You are officer Bob for a week on a mission to cruise the streets of a downtown Amercan city picking up as many villages as you can You are given a quota of the number of criminals to be arrested – which you must meet if you are keep our job, it is also in the game.

The graphical feel ef the comop has bean lathfully reproduced, it has a curtoon flavour about it – something that seems to be the halfmark of Tengen games since Nybots and Vechators. Bright Colours are also very much in evidence, particularly in the divining scenes and criminal opesboring screens back at the sta-

The pame presents an overhead view of the action with the screen split into two secbons, in the left two thirds of the screens is your squad car and the scrolling road. The right hand side shows the score board, listing your arrests so far today, revenues collected, and there left to reach your onote.

Your squad car can be souped up by paying a visit to the Speed Shop. Here you can
purchase reddy, amont, better brakes and
improved acceleration. You will need money to
pay for these items, though, and to get if you
must entireform your daily quotas.

There are a number of ways of getting cash. Picking up httchikers, fitter bugs, and drinks pays a tew deliars - but the way to earn real money is to go after the archivillains. Sid Singer and Freddy Freak are the moanest dudes on the block and you will occasionally get an APB (MI Points Bulletin) from HD to

apprehend them. This is where the real fun beguns To arrest them you must poston year Sikethig Wheel Cursor over their and their suit on your sine. They may not stop armicolately so you have to be ready to green chase. But a very cop will trill you, chaume comments through a ball up area is a helphy diagnerous business. You are the hern if you catch them but should you catch them but should you catch them but should you can't have green and the process. — then your head will be on the chope he had been the or the chop one block. Dement points are deducted from



Officer Bob gets the villeans in his sights.

vour score in this event. Get toe many of these

and you're fired
Cateland the enminals is

Dataing the chimaks is one thing—a set in the first loc colors is author? The set in game element of crussboring the criminal sense APP arother directions of paylick was effect of the set in the set of the set in the set in the set of the set

APB is certainly fun Graphics, sound, and the smoothness of animation all hit the quality lavals that a Tengen title needs to convert effectively to home use. The problem is that

PREDICTED INTEREST CURVE

the basic game design is not really shitted to the hours, days, and weeks of play that a homcompoter game needs to justify its price by At 20p for a few minutes entertainment APB works fine as a centrap. At £20 to play it alhome on your Arrage of STI am not so sure you were totally addicted to the control go for it. If not 1-thy before you buy is ACE's advice.

Eugene Lace

- 1	RELEASE	
ATARI ST	£19 99dk	OUT NOW
ADIMA	£19 99dk	MMINENT
SPEC 128	£9 BBcs - £01	14.99dk IMMINENT
AMSTRAD	59 99cs / £14	99dk [MMINENT
C64/128	£9 99ts • £14	99dk MMINENT
IRM DC	P24 95-k	IMMENT

ATARI ST VERSION

Bright colours are the hallmarks of Tengen titles and the ST does well to reproduce this feature of the concept Sound FX are fine - pertoclarly the sizes that screams out when you attempt to arrest the witans.

GRAPHICS		IQ FACTOR (
AUDIO		FUN FACTOR :
ACE	RAT	TING 762

TURBO

MICROILLUSIONS rev up for death race 1989

MICROILLUSIONS were

house that promised great things when they first came to most people's attention by coding the game Facry Tale - given away free with the first first batch of Amiga 500's off the produc-

A GauntleEstylo adventure that scrolled smoothly in tonr directions. Faery Tale was an early demonstration of the graphical excellence thil could be achieved on the Amige, Gerneplay was iffy - bill as a foretaste of things to come the game was a milestone. The strangest thing of all is that efter Fivery Take. Microflusions became something of an tarry

Until now, that is. They have appointed a new UK distributor and are back with a new racing game called .. Turbo.

The instructions are sparse - You have just entered a death race with no rules and no judges' - and the arm is correspondingly simple, to get to the end of the course and kill off as many other road users as possible without

The gameplay is viewed from above, as in the con-ee game Championship Screet though Turbo has a linear track rather than a circuit. The left hand portion of the screen is the action window with your speedometer and progresave map of your progress to the right

getting nicked by line cops.

ly suited to

that a home

ts price tag.

to play if at

at so sore II

on on co-no

Eutrane Lacev

's advice

it is assented to pick up the various weapons that are scattered around the road ways. You get these by driving into them, The mosiles arenades, and oil are most effective for seeing off your apparents - but have to be used sparingly or the police will make chase arens blazing

The race track takes you through three levels - town, country end desert and you are rac ing against the clock to reach the finish. There are many hazards to be avoided level crossings and roundabouts foom up in front of you in a split second, so it is a good job that your car



Watch out for that train

can break quickly to avoid these hazards, in facil it can be made to break and accelerate even more rapidly by picking up the wheel

in the lown section of the game several pedestrians are represented by tiny dots making their way across the streets. Mow any off

these down and they become larger red dots as the computer emits a hornfying scream. Sound FX are generally impressive throughout I particularly liked the throaty acceleration sound and breaking noises as you screech to a

halt in front of an obstacle. The police sirens are also authentic sounding as cop cars attempt to bump you off the road for mowing down too many pedestrians

Just one Ihing seems a bit odd. You actually lose points for POWARE down Whatever han pened to the motorists mile thal you get too marke lor grannies and traf-

> Turbo is presented and game tested to trade torally hiph American standards. game play modes enable you to play against the computer. against a friend. or agenst a

fic wardens?

Irrend we a modern link. Computer racing fans should definitely take a look at this one

· Eugene Lacey PREDICTED INTEREST CURVE It will take you a white to master the use of all of the weapons and power-ups. But one you do, the two player antertainment value of

RELEASE BOX No other versions planned

AMIGA VERSIDN Sound is where the Arrina is used to best effect

m Turbo. The sound FX are not only impressive but, more emportantly, they are well synchronised with the game play Graphics are adequate - and

IQ FACTOR 7 FUN FACTOR I



ACE RATING 850 Advanted Computer Enfectamment 69



SHADOW OF THE BEAST

PSYGNOSIS go all out for revenge

NOT content with the market they reside in Psygnosis have decided to rock the packaging and marketing boats once more with the release of their most stunning product. ever. Beast, or to give it it's full title, Shadow Of The Beast is packaged not only in an extraordinarily large hox (the size of two Psyclapse boxes) with a piece of specially commisskined Roger Dean artwork, but also comes with a high quality T-shirt complete with yet enother original piece of Mr Dean's. So obviously Psygnosis most have a pretty hot prod-

uct to back up such a marketing gemble, night? You're not wrong. Beast is certainly it very impressive game. For a start, at present it's planned as Armea only, which means the programmers have had no ST conversion restrictions. And once you take a look at some of the statistics, you'll start to wish most other programmers would give themselves a rest from

scrolling, which is really a sight to behold. The

No lass then 13 levels of smooth narallax

the speed of a con-op - and there are up to 128 colours on screen all once. And that's only the start: there's five sound to be taken into consideration yet.

It's all composed by none other than Dave Whittaker and ported directly from a KOBG M1 keyboard (as used by up and coming Noo Investmenters Saraya). There's over 900K of it which, we are reliably informed, is more than the music from the Thunderblade and Afterburner coingos put locether. What's more, it's also some of the best work Whittaker's ever done, catchy, atmospheric and it's got that all important rock guitar sample

The theme of the game is revenee. Stolen from your parents at their sacrifice and burned into a bestual messanger for the Beast-mappes through various metamorphic pobons and deep hypnolic suggestion, the Beast-mages thought they had desiroyed all remnants of the human inside you. How wrong they were. The beauty within the beast has awoken, and now it's after

scrolling updates 50 times a second - that s + blood for blood. The death of the master to the death of his parents

But before he can reach the master, h has to fravel through several areas, each with its own predators and its own traps. Out in the wilderness, for example, you are assaled by rampaging eagles and low flying boulders. Fit

RELEASE BOX £34 95dk No other versions planned

AMIGA VERSION Hurd to shalk of a game that's befor suited to a con

ics, sound that I make you went to buy the album 10 FACTOR ACE RATING 885

70 Advanced Computer Entertainment

with

uo e obte you . ther along in the gime you are assailed by such wonders as eyeballs, Psygnosis insignia and lightning.

The whole thing is played over a multi-directional scrolling playfield - and what scrolling! The 13 levels of perfect parallax are incredible to see, putting most games to shame

Fighting back couldn't be simpler. To start with, and indeed through most of the game, he uses his developed strength and speed to morely punch the enemy away with a resoundng thud, Later in the game you can pick up laser guns, stun guns and jet packs which allow you to fly all over the screen.

And that's not like only thing you can pick up either. By punching open certain backdrop objects such a coffins, monorths and chests, you can find various potions. Some of them do nice things, like give you more energy and punch power, while others detract from them. The only real problem is that they all look the same. The only way of telling which is which is through good old thal and error. Thankfully, all potons remain in set places for every game,

PREDICTED INTEREST CURVE



There's more to Boast than more blasting and punching - grab that key to get on.

so a couple of trips through each level should be enough for you to learn which are best left

All the game graphics are amazing. The backdrops are exquistely drawn and the spintes are fairly sturning. All that plus loads of Roger Dean artwork, what more could you ask tor? Gamewise, I have to say this does feel and

look ever so slightly like it's namesake Altered Beast. That said, there's a lot more to this. what with all these puzzies and whatnot.

What would have been simply a fair game has been turned into an excellent one simply because the company took a little care over the product, Well done to Psygnosis. Yes, it is a little more costly than your average Arniga game, but when you think you're getting a free Roger Dean T-Shirt, can you really complain?

Tony Dillan



Sturming parallax acrolling and provide a graphical presentation that's going to be herd to beat.

master, he s, each with Out in the assailed by ulders. Fur

mester for

Advanced Corrouter Entertainment 71

BATTLE VALLEY

Hewson send in the choppers and tanks

AT last a shoot 'em np with a bit mere to do than simply staying alive and collecting power-ups

The world is being held to ransom by a group of International terroirsts who threaten to fire two nuclear missiles unless their collaragues are released from jails in the USA. Your task is to eliminate the missiles that

are holed up in the terronsts' strongheld – Ball the Valley – in the middle of the desert. Using a chopper and armoured valuele it is down to you to battle through the terronst

defences, capture them and climinate the missies.
You start your mission in a chooper which emerges from a sity dome. It's a light weight attack chopper in the mold of a Lynix — with his howered massible. Bit the chooper is not magically armed with an unlimited simply of massible and the chopper is not magically armed with an unlimited simply of the house to be an eye on a start running out. The maintaining operation is carried out by Neverine shower the miss during carried out by Neverine shower the miss during

and letting down a chair to pick up a box of

missiles and than wanthing them back on board. The winch is also used later in the game when you have to pick up a huge section et steed and manceuver if into place to repair a bridge set that your army can age through to Battle stallay to bembaud the terrorists. These shrifteen claiments make for a far more empoable game – reminiscent of the classic Brodebund tible Chipotifes.

Battle Valley features an imprassive parellax scroll on three levels - with sky, meurifantops, and fereground all moving accurately as your chepper whizzes by.

Later in the game — when you have successivily repeased the bringes you can go cacessivily repeased the bringes you can go cates and kep into the armount whether. Now you care made in this work of the case of the Now you care made in the case of the case of the Now you care made in the case of the case of the Now you can call the case of the case of the case of the young pathod you can be called the case of the magnitude bumps and follows. It is every bill as good a labet as you eared so care of the case of the Stacks of every ground installations must be



Taking on more ammunition for shoot out with the terrerists.

laken out before you progress towards Battle Valley itself and the final show down, all the while dodging a fierce ground and sarial bemberdment

Each of the missiles is protected within a seal of companies of the policy of the dashroyed energin return to HQ and their mike ready to bleeste the second one. Should you lose all of your lives before completing you mission you gal to see the ubquirtous model mishroom cloud and a message telling you have failed.

One small personal quibble: what is a about pregrammers that they are so lend of including the holocanst cloud in their gamas! We impt have seen it half a dozen times in the last six menths in different games. Bad tasts with the control of the control of the control of with the control of the control

Anyway that grumble aside, Battle Vafley Is a deep and challenging arcade game. The time factor and strafegic elements add a very welcome "thinking" dimension to this smooth and coleurful shoot 'em rip.

Eugene Lace

AMIGA VERSION

Coded for Hewson by Creative Thought a clear risistery of Amiga graphics and sound is very runch in evidence. The smoothness of the animotion makes the game Particularly in the slowerparts of the game where you are menosuring the chopper Excellent paraltax effects and load

GRAPHICS A 10 FACTOR 7
AUDIO 7 FUN FACTOR 8
ACE RATING 815

RELEASE BOX

AMIGA

PREDICTED INTEREST GURVE

Entertaining and reasonably deep arcade game. The trouble is once you've beaten the serroriets you are unlikely to want to play it again.



The bridgee need to be repaired to enable the ermoured care to get ecross



towards Battle down, all the end aerial bornen you have and then make ne. Should you ompleting your autous nuclear as teling you le, what is if ire so fond of ther games? en times in the es Bad taste, Battle Valley is ame. The time id a very wels smooth and Eugene Lacey and is very of the onimais the slower

CURVE











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Screen Shole from the Amiga version AMEGA E34.93/ATARI ST COMING SOON

BATTLETECH

Take command in this RPG/arcade combination

The Citadel 1. In the beginning.

keep investing all current financial assets in one of the three available companies, DefH-NasDre BakPharm Be very wary with BakPharm as its value is subject to tremendous flucinatron. Clever investing will nearly double your money. It's also wise to place a large bulk of your money into a low

The accounts npdate every time you receive 15 C-Bills, so it's best to keep a walk around/investment roubte going in the early stages

nek account

2. When you have enough money, buy an SMG from the gunshap - even better try to parchase an inter no, this little weapon wipes out people in one shot as well as giving you a chance to escape from enemy Mech's. Then go to the

Citadel building and earnl in SMG and Mech weapon classes until you become good in both skills. 3. The next thing you need is armour. Buy a flak snit as these represent the best protection for year money

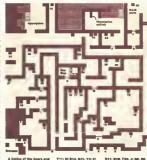
Training Missions

Don't attempt these straight award Let your investments grow first. Mission 1. Use a locust for this Mission 2. A Chameleon as it

has hands. Mission 3. Again use s

Chameleng Mission 4. As above.

Mission 5. Real compat! Use a Chamelegn and control it yoursell Keep in forests for cover; even better sland in a lake to keep the Mech cool Only use weapons that are in range of the enemy as this will help to prevent overheating When the Mech has been trashed



the codes to open them: AI 01.03.Y5: 01

826, 832, Y10: F) R26, YB1: K) R20, R23, Y32. 824, Y16; 8) K25, 812 YE HI ROO, BUT, YOU II

go to the founce and talk to a character caffed Rick Atlas, he'll give you something very useful. Mission 6. The same as 5. though this time split your firegowor between the two Mechs.

Mission 7, Whatever you do. don't fight the Jenners. They have thicker armour and a lol more power than your Mech. Instead. Inm tail and run the second the mission starts. You should find a gap in the fence a short distance above the entrance to the training ground. When you and your Mech are back in the main area of the Otadel run for the gap in the Main wall which is all the bottom of the west side. If you do make it head straight for the Starport and get your Mech patched up there.

Starport If your Mech is in good condition your might be able to handle combit with another Mech, though

this is not advised at this stage. Taking on human groups however is perfectly acceptable

Once you've enlered the Starport (through the Mech park) head immediately for the clothes shop: a small oblone brilding close to a lake Purchase some new clothes then head off towards the hangural hall. Read the text, then leave Wander around the cdy for a minutes then return to the hall once more. You should now find a party going on and meel a man called Rex Dutside he will give you several things You will then be attacked - fiee!

Head for the Comstar building and withdraw 150 C-8Ns Go to the Mech park and pay the attendant, you should now have a new

Spend onto a while wander ing around the nearby area avoid ing combal where possible. Then return to the Starport. With a bit of luck you should have lots a lots of money in Comstar Will draw all but a thousand C-Bills as go to the Mechit-Linbe to gel you previous Mech repaired. If yo have enough money left ow soup-up both Mechs at the sper shop. Take both Mech's out at cost of 150 a piece it is als wise to take out an apprentic ship, as this enables you to si vage boalen up battlefield Mech to take back and renar

The Crescent Hawks Head back to the mined etadi

and enter the Barracks through the hole in the north wall. The holodisk that Rex gave you will then be played causing the invertors but to appear on the map Leave the Otadel and hear

for the city NE of the Starport, G to the prison and free the car tured Crescent Hawk. Then try to retness his impounded Mech. Yo should now have three Mech's it the party. After this go around the varions cities. At the Mechit-Inber ask to apprentice - with a bit of luck you should find a Crescen Hawk At the hospitals keep searchmo the medical records until you are approached by another Crescent Hawk These but should be a technician and doctor respectively. Try to get their say crairst skills up to excellent, you'll need them later on. When the group of five has

been assembled make sure the are armed with internos and Fial. surts - you should have more than enough money by now. If you are uneasy about somebody in your party, fight a brief battle and if he isn't in a Mech he'll be killed. The find his replacement

The Inventor's Hut This is located in the NW, a local

way from the Starport Wheel voidue answered the relevant questions the inventor will appear to repair the bolodsk. He will also tell you that the Starleagne cache is to the SE, in a cave, on all island

Tha Starleague Cache

the man

The map of the Starleague centre shows all the code terminals. doors and important leatures necessary to complete the game. The codes for all the doors are loure in a list from A to K at the load

In order to linish the name you most open all the doors. Ind.

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d have lots an Comstar With rand C-Bills and ube to get your epaired If you oney left over hs at the speed dech's out at a ece. It is also an apprenticefes you to salttlefeld Mechs

t Hawke. runed citadel rracks through orth wall. The Rive you will one the myenon the map.

idel and head e Starport, Go free the cap-A Then by Io sed Mech You ree Mech's in go around the Mechalybe's with a bit of d a Crescent spitals keep dical records thed by anoth-These two an and doctor gel their spescalent, you'll

of five has ika sure they nos and Flak we more than are upy 'Il wo body in your ittle and if he kiled. Then

Hut NW, a long port When he relevant r will appear He will alon cague cache cave, on an

ague centre terminals eatures necsame The s are found t the top of

the game doors, Ind



the Mech parts store and then go down to the star map. Here you must highlight the following planets, Peshl, Benjimin, Skye, Ryerson, Kathi and Achener Then go

to the terminal near the entrance ladder and you will be given the white code. Go end switch on the Hyperpulse generator, and then go to the Hyperpulse (self. If

everything has been done correct

ly you're there!

CONFLICT **EUROPE**



If World War Three Is going badly for you, try some of these tips, they could lust make a difference.

HATO Strategy.

NATO's main role is to hall the Warsaw Paci advance before the red steamroller reaches France Depending on the scenario and strength of units there are a number of ways of accomplishing this

The first recures Nato to open a gap at the centre of the pact line. The quickest way of dome this is to set a dozen or so planeS on assault breaker, set your units to chemical weapons and faunch a single nuclear strike early on at the strongesi, most central unit. Before long a gap of two squares should have been opened "Send voir three nearest, strongest units through the gap behind the northern pact armies. Keep these three units supplied as best as possible. The only major obstacle will be the 9th Shock Army who have an army strength of nine. Concentrate your assault breakers on this unit and try to whittle if down Also set ten szauadzons ni planes to attack symply lines in order to prevent the Soviets from reslack ing This should and with the Pact northern armies being eliminated leaving you to concentrate all efforts on the weaker southern army group.

Warsaw Pact Strategy

The Warsaw Pact role is easier. Try to drive three army groups through the centre. Iop and bottom of the NATO line as the object tive is to conquer France and West Germany rather than

gel bogged down in combat Don't waste fime attacking neutral units either as it just wastes time II you really do feel like massed combal, use one or two sagle nuclear stikes plus chemical weaponary, this should prove fun, if not lengthy

Municar Tactics While not the most devastating.

single nuclear strikes are the safest They sland a Jesser chance of provoking heavy retalation and more importantly limit crylian casaulties, helping to give you a good score. If towards The end of the I herty days it looks as though you are not going to complete your goal there is a fireplan that will eliminate eight enemy units - also a good move to use when you are on the verke of defeal as it can swing the course of the war One side-effect it does carry is a potentially large reprisal from the enemy, so be

warned And remember, the object is not to end cavilisation, but to Inumph with minimal civilian and military deaths

SPHERICAL

Not only do you get the Thunderbirde codes this month (see below, but the passwords for Spherical too!

One player made

YARMAK ORCSLAYER SKYFIRE MIRGAL

Two pleyer mode

MOLIBNEI ADE CLIMBACHACHMAI

Paul Reilly, York



VOYAGER

To access the cheat mode on Voyager simply type WHEN THE SWEET SHOWERS OF APRIL FALL! on the main option screen, you will be granted a cheat option Select this and you will be able to choose up to three different types of cheats, infinite shields, fuel and equipment.

Also, when the main cheat mode is active, by pressing 'Enter' on the main option screen you activate some extra functions:-

> Shift, undo, help Cycle through objects

> > Cursor keys Rotate object

Then try pressing

7 - to decrease size of object 4 - to enlerge size of object

Also when in game mode try

- F1 Go down a level
- F2 . Co san a level F3 - Cycle through leaguages
- F8 Game position F9 - Data on object F10 - Frame rate

those, try investigating object number 0058...

Thanks to Robi Barrington and Dan Meacham of Littoyater



THUNDERBIRDS

Here they are! The exclusive codes for ell the levels.

Level 1: No password required Level 2 Recovery Level 3. Aloysus

Level 4. Anderson

Thanks to Phil Palmer, Devon. Any more Thunderbird tosters out Ibara?



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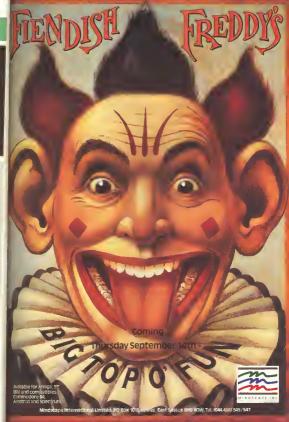
VIGILANTE

Madonna is being held hostage while her boyfnend is being locked around the local streets, what can you do? Try typing GREEN CRYSTAL on the high score table Pressing F1 during the game will give you an extra life and F8 will take you to the next least

D Price, Wirral

NTE

al streets, Try typing the high F1 dunng



ALTERED BEAST



 To kill the first boss run np to him and keep shooting. When he is about to drop his head on you, run to the side Keep repeating this to kill him. When you arrive at the second boss go right up to the eye and keep shooting. You'll get over run by other eyes, so press button 1 to get nd of them

The third boss is pretty simple.

Keep shooting at him and duck
when he fires back

 Lastly, to kill the end-of-game nastly, stay in the corner of the screen and keep shooting. When he comes up to yon, jimp over him and shoot him in the back.

To continue the game when you

Push np and left and both buttons. To repeat it press both buttons and right or left or up or down. If this doesn't work press both buttons and up-left, up-right, downleft, down-right.

Mark Sanders, Manchester

Or try this, to gain an extra life press top left and press the start button

Danvel Elzem, London

ARCHIPELAGOS

PC Version

Solve Archipelago One, Press RETURN to select an Archipelago and type 8421 and press RETURN. Press RETURN again and you can select any Archipelago from 1 to goog

ST and Amiga Versions

Solve Archipelagoes One and Two, Ress RETURN to select an Archipelago and type 8421 and press RETURN Press RETURN again and you can select any Archipelago between 1 and 9999.

Every fifth Archpelago in the first one hundred is the most interest ing as these are pre-designed by the programmers. There are many very tricky and highly complex Archipelagoes to be seen. Try number 5942 as an example!

Thanks to Logotron themselvest



NAVY MOVES



The critry code for part two is 2277 and the solution is as follows:

From the start R, D, R, Shoot 2nd Official and take his code, L, U enter door, R, shoot 1st official and take his code, I, enter door, U, R, R, R, D, D, R, U, enter door, D, enter "EMERGE" on the pomposition of the comp

puter followed by the 1st Official's code, now type "STOP MOTOR" and enter 1st Official's code agan, L, U, L, L, enter the door on the night, U, L, enter door, U, R, R, R, D, enter door, R, enter door, R, enter door, R, D, D, L, L, L, shoot the Transmisson Official and take his code. L

type on the computer "OPEN

DDOR* Ihen enter 2nd Officials code, L, set bomb on left side of the screen R, R, R, R, U, U, R, type on computer "Transmit" the enter transmissions Officials code, now enter "OABERBYAMD", L, L, U, U, U, go to the left side of screen

Tommy Artken, Scotland

T

ne end-of-game comer of the shooting When ou, jump over in the back

me when you

both buttons, both buttons

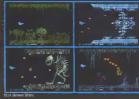
ress both but pright, down-

an extra life ress the start









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Both Menace and Baal exploit the PC in a way that will leave you awe-struck.

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PDAT

ROCKET RANGER

Cinemaware, ST £24.99: Amiga version reviewed Issue 15. Ace rating 814

Based around the cult movie series King of The Rockel Mes. Rockel Ranger transports you back in time to the lete nineteen Ihirbes. Here we find the Nazr's building a glant rocket base from which they will dominate the world. Only the person can stop lum.

It's baen a long time since Rocket Ranger first appeared on the Arriga As usual with Cinemaware software it featured very high quality graphics and sound accompanied with some superb plotting and execution. And we're glad to say the ST version is every bit as good, in fact almost identical. The only real price about the conversion is that it comes on thrae disks, with a tremendous amonet of disk swapping.

Even with the disk swapping Rockaf Ranger is an absorbing, taxing gama which should appeal to most people who like challeng ing interactive advanture moves.

ACE RATING 805

FACK NICHOLAS' GREATEST 18 HOLES OF MAJOR CHAMPIONSHIP

Cons Maga By T

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10.

Accolade, Amiga £24.95dic: PC version reviewed issue 23, Ace Ruting 670

Until now the only way of getting a really good outing on the green in bad weather was via Lenderboard. At last the domanetion of that market was broken by the PC and C64 version of this game. In typical Accolade style if features digitised pictures, speech and glossy intro scraons, which help present an equally glossy All the major features you'd expect are here slices and hooks, water, mud, rough, bunkers in tack

everything but the crowd. The only complaint is the length of time laken to draw up the screen, roughly three seconds, though it seems longer. The ideal game for the golf enthusiast, plays well, looks good, preforms well. Thumbs no to Accolade

Ace Rating 890

Ocean, Arroga £19.95dk - Spectrum version reviewed Issue 16, Ace rating 807

Shortly after the appearence of the ST version Ocean promised that Amiza Robocco would feature Init. screen graphics as opposed to the indiculous matallic border, plus lots of extra effects. Sady the penny cidn1 drop that way and what we were left with was an almost identical port from the ST.

Looking on the bright side though, it is a prefty good game. Not an actual arcade conversion but the licence of the film, Ocean had the ability to make the odd tweaks and changes to the layout. These include several between level segrence such as a shooling range and matching photo-fit pictures

Unfortunate to see a port over from the ST, but still a pretty good, playable game.

ACE RATING 810

Rockel Ranger on the ST



NEW ZEALAND STORY

Openn, C64 19.95cs; Amiga version reviewed Issue 24 Ace Raling 675

The hires graphics are very neel and tidy, though the emount of browns and yellows used on the colour scheme leave a little bit to be desired. The sound track is as cutesy as ever and complement the game perfectly Most importantly though it is immonsely playable, even if it does drop a few points to the 16 bit predecessor

ACE RATING 875

NEW ZEALANO STORY

Ocean, Spectrum £8.95cs. Amiga version reviewed issue 24 Ace Rating 875

Although pipped at the post by Rainbow Islands on the 16-bit versions, the eight-bit conversions of New Zeyland Story have been surprisingly good (check out the C64 version elsewhere on this page). The Spectrum conversion is particularly impressive. As usual the Specfrum version is monochromatic with black on yellow as the colour choice Despite this if still plays very well and holds its own in compension. A game worthy of a place in the collection

ACE RATING 860

Maw Zoniand Ston



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Accolade

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eight-bri C64 yer save As A game

GREAT AMIGA CONVERSION

PAPERBOY

Elite Amiga £19.99 Everybody's favourite com-up comes to the Amiga at last and has never felt as at home. Take the word Arcade, and put alongside it the word Perfect (I used to be a big fan of Sesame Street) and there you have a phrase to describin Elite's conversion. To describe simply how the game works, you are a paperboy and you have to deliver papers the American way, by throwing them at buildings very hard. So hard, you can topple gunts, break windows, and level gravestones. Only a certam number of the houses

on your run are subscribers, and you'd better be sure to deliver all of them. Any subscriber you miss out, instantly stops subscribing Run out of subscribers and it's game over The graphics have been copied perfectly, as has the sound right down to the voices used. Fans of the onemal should most def mitely get hold of this version, and people who have never heard of it should icm the greue, otherwise you'll really be missing some-

thing

ACE BATING 878

FUN ON THE C64



FIREPOWER

Microillusions, C64, £9.99 cs. £14.99 dk

Frepower may not have been a resounding success for Microflusions upon its release as an Arriga bite a while back, but as a two player game it has few equals. Now being re-released by The Software Company Ltd, the C64 version has finally seen the light of day, and what a fitting conversion it is too

This is how it works. Two players, either human or computer, fight a private war between thomselves. Each has a large base, full of guns, walls and buildings. Some of the buildings contwo extra ammunition, some contain medical supplies and one of them contains the flag. By now you've probably already guessed the idea. Gel into the opponent's base, steel the fiee and

Played as a split screen multi scrolling plan view shoot-lem-up, the playing area is huge, so just finding your opponent or his flag is a problem. To add to the problem, enemy guris fire constantly at you, as do the enemy heircopters that buzz overhead. Every shall detracts from your energy, and when your energy is spent, you lose a tank and start again back at your base The graphics are slightly blocky, as can only be expected with a 64 pame, but well coloured

and the feel of the Arniga version has been carned very well indeed. Sound is limited to a constant runnibles of the tanks and borm poises, which does the inh well enough. The most important tiving that could have been carried across, and one that has (thankfully). is the fun level. Even as an 8 bit game, Firepower is still extraordinarily fun to play. One definitely to Jook out for.

ACE RATING: 841

TRIVIAL AMIGA CONVERSION

TRIVIAL PURSUIT Domark £19.99dk

The world's most boring board game comes to the Amiga, and now you can have hours of endless fun naming major river tributaries and cor-

rectly identifying the shape of Ghandr's birthmark. The idea is simple. Move around the hexagonal board, answering trivia questions as you go along Land on one of the corners of the board. and you get to answer a special question that, if answered correctly will result in you receiving a wedge' to fit in your piece Display an amazing intellectual feat and obtain all six wedges, and it's a race to the centre of the board where you answer one heal trivia question, chosen by every-

body else from the six calegories available, and then the game is yours. The one real problem with TP is that it's just too easy to cheat. The computer asks you a guestion and then asks you whether you got it right or not No form of mout is required. There is the option to play solo, but as the only real challenge

myofved is trying to remain honest, if ain't fun. Graphically it hardly pushes the Amiera to it's limits, and the sound wouldn't sound out of place on a 64. A pretty dull game, if you ask me, but if

you like this sort of thing, you might as well buy the boardgame. After all an Amiga might look out of place at a yuppie dinner party,

ACE RATING: 695







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on that, if n amazing where you by every

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t right or re is the chalenge tfin ga to it's of place ns, but if well buy

look out



KICK OFF SCORES WITH REVIEWERS





or over the encount.

GOMBAT - GOLD - OVERALL 81% - The best football game on the Amige todets,

C-OVERALL 85% - The game is such a joy to pier, By for the best to appear on 10 left, it is all over best into anounce

GOMBATING MERCELY - OVERALL 85% - The game is such a joy to pier.

F, which has the propor options and the best gamesty seen in any football game.

Lesses football game that all how to organish up for a season ticket.

A great football game that will have you quenting up for a season ticket.

PIUTER EXPRESS - KICK OFF is simply the best football sim, we've played on any miero. It's fast, if immense fur, log and but it.

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ARCADEOLOGY

AN RIGNALL GOES BACK IN TIME

Ever wondered why so menty people think computer gemes are 'avil', or what the bug was on Breskout, or how Donkey Kong got its name? Find out as Julian Rignall continues his history of the arcade phenomenon...

this months of the first value gaves group into full product, and the gavest group into full produce, and the gavest group into full produce, and many control a continuous control and continuous control and continuous control and profits received from the group of the gavest group into the gavest group into the gavest group in the group in the gavest group in the

The first arcade video game appeared daing 1970. It was called Pong, and was a sort of two-player video tenns. Each contestant controlled a but, with the idea to get the video bill past your opponent. The contest was puged over fitteen rounds. Banal stuff, really, but from little aconts...

An interesting point is that I have year's lafes, fulfair Bindhall (segginer of the original Planggime, produced another video gaine called Computer Space This were a one-connoc battle between a ship and in lightly source, and its ships bank caloned featured thread and rotate controled Unfortunally this little beadle ammed on the score about say years too early—only 2000 machinosy were sold.

Pacidan - surely the most famous video character of all time?

in the years up to 1976, con-opp logan to get increasingly more complicated Brooked games cerebid a min case, and consequence properties and consequence properties and consequence properties and consequence buts. The top Broaked games, Rain's Super-Provision, game the logan for scheme of schemes in non-box incodersity, the first Breaked machines were longed – of the first appeared on the right, these was a 25% chance that you would have been supported in the first properties of the fourth sorter and you'd have to firstly one gamed.

have to train your game. One-one-one tark and air combat games were also popular, where players fooght one another with identical trains, begames and jets. Dimang games appeared, but were very semistic, hocoprothing an overlead view and scrolling roads, of which Smokey Joe, a Fire Figne game, and Saphe Rig were prime examples. Alan broke the mould with Right Divert, a 3D game in which the player laced down a road whose kerb was comprised of white dots.

Sega also entered the video game market will be through the concept shoot iron ups, but upon technique limitations resulted in them being very simple. Graphics on all the early machines were black and white, and screen resolutions were very low, with lego-files sprine. Bally finelly introduced the first colour.

video game eto the arcades early in 1978 with their revolutionary, but very expensive Star Fire. It was a 50 game and came in a large sit in cabinet, but was still fairly simplistic, with the player attempting to shool down craft suspiciously like the ones in Star Wars and Balflestin Galactical 8xt finity, in mid-1978, Japanese psychol-

Out invery, in refer 2 yr., squarese popularing egists circle up with an idea flow that to breake the video game boom – Space Invaders. But even they don't jeel it quiter right. Being developed struttaneously with Space Invaders was a game called flow Shark, which the manufacture as were contidently becking as THE hot video game of the year. Space fewaders was merely considered a novely which might become a bit of a cult machine.

How wrong they were...

INVADER INVASION

At the man Japanese trade vlow in the Summer of 78, early infortnon of the Space lawsdern potential success came when hundreds of orders were taken on the stort, Blue Staak was soon forgotten as the Space invaders bo

As the potential of Spice inviders was realised, copies and derinalives of the machine came onto the market. Belinve it on not, the original Space hauders wasn't copyrighted, and different manifacturers created Space fluiders. By Fast handers, Spice inviders it is a spice fluiders, it is not seen to the comment of the c



Autro Stantor appeared in 1981, and was one of the many Galaxien closes which appeared that year.

DONKEY KONG??

If you think Donkay Kong sounds a rather stranga name, you'd be quite ngint. It should have been called Monkey Kong, but a faulty talax between Japan and America resulted in the machine cabinals being manufactured with the "Donkey" monitor all over it!

Menufacturars Nintendo swiftly changed the code, and the game forever became Donkey Kong

If that's bad, what about Continental Circus not a bad name, but for a racing game?? If should, of course, have bean Continental Circuits



ty little spoilas ruling the roost for a year before other, better machinas appeared in the arcadas and the invaders bubble finally burst

The class of 1980 was a moved bunch, with invaders clones and darivatives still appairing in various forms. But the more interesting games included Atan's Missale Command, Centipeda and Asteroids, William's highly advanced Defender, Galaxims (which would be closed and usad as the basis for a myrind of other machines over the following year and a half), Froggar, Battlezone, Scrambla and Donkay Kong.

And of course there was PacMan, a machine that was responsible for the second arcade boom. The highly addictive and non-vinlent gameplay drew areada punters from all quarters. Famale arcada attendenca incra ased tenfold, parents came to play... and those out to make a quick buck on the listest craze increased PacMan awareness with PacMan merchandising bayond ballef - sweets, T-shirts. comics, a carloon senes, breakfast cereal. cuddly toys, towels, clocks, watches - the list was andlass.

But sadly, PapMan was to be the lest major arcada phenomanon. As coin-op manufacturars continued to release Invader/Pachten clones, arcadastars became borad and arcade attendancas bagan to dwindla back to a more normal level. This, of coursa, spelled disastar for many companies, and dunna 1983 the arcade industry in America went through a very lean brna, with many companies winding up business.

Even the advent of laser risk arrada machines couldn't bring back the punters who wera lost from the PacMao games. . and so tha market finally settlad down to mael the demand. These days the arcade industry is very healthy, but one wonders what surprises arcade manufacturers have in store for us over the next faw years .. and can they ever angunees a third massive video gama boom?



The iastruction diagram for Star C sublimely simple; the manufacturers were canfident that their 'Patented Vec-

TIME, GENTLEMEN, PLEASE ...

recesting point to note about early video seemed like a good concent when their





ta was one of the first games to feeture progressive gamepley, enabling to increase your firepower by docking with er portions of your ship,



FEMALE ARCADESTERS When the video game boom occurred, it was noted that players of the machines were pre-

dominantly mate. In fact hardly any lemalas actually played the machines at all Why the was the case was a mystery that machine manufacturers fined to enswer but couldn't, until Midway accidentally stumbled upon some sort of solution in 1980 when PacMan began to munch his way into the arcades. All of a sudden femala arcade attendance increased tenfold - PacMan was a game that appealed to both sexes! its combination of skill and nonviolence seemed to be the answer, but unfortunately neither Midway or any other coin-co manufacturers could follow up PacMan, and as a result female attendance in the arcades slumped again, and has remained far lower than male attendance ever smoot







oceon

MAKING IT...

AND NOT JUST MUSIC EITHER CAN MIDI EARN YOU ££££?

e all knew about MIDI, but many of us tend to overhook it because we mascal or defailed bechincal knowledge You out and buy your MIDI keyboard, your MIDI with the face for your ST with one butlen), your MIDI sollware and them, and fine what?

AEE has given several practical antwers to this formy question in practical standard standard steel find in the first flow given a guide to the MIDI standard steel fin the fig flow issues to a detailed look at cheap let flow several to be detailed look at cheap however, were going to look at something completely different: the use of MIDI by people who want to make a living from it, not for games or software but for solvents, videos, splays, records and playing five.

We chose people at various stages of their respective centers from the por muso with years of expentitive to the ones just starting of 8 yoking at filter stones it proudes you will be one thing you don't get with the soft ware. Instit hand compenses. The interesting thing is that not all of them a muscally filter competer feetands in fact all of them would what to a sightly plothus about computers in the most stages. All of them have one thing in common floogils - a strang to solvere what they have set to do.

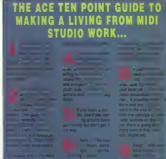
EDDIE GRAHAM

At the age of 1.6. Edde Craham finshed stool, bought himself a synthesizer and decided to figure out all about MDI. Having learnt about one instrument he bought another and tool one instrument he bought another and sould not fair from where he leved that as alwads using a Commodore 64 plus CLab 16 track software to produce tracks for any-body and anythurs.

ooky and snythmic. This was or the front room of one John has we in the front room of one John has the work of the sound of the sound has been been as the sound of the sound to the by oblying any sort of gings that came to land. Deputing this some savings and horrowing money from relatives Eddie bought what was the en superior synth, albed second-work John It was able to gean not only validate sound to the sound of the sound sound to the sound sound are sound sound and sound so

Two years ago the stated bought and 1900 and Stepheng 70.4 sequence that 1900 and Stepheng 70.4 sequence that 1900 and Stepheng 70.4 sequence tool instead to second and amongs, As the manage stated in some in from sequencing business processes that the same in from sequencing business greater to the manage years of in new equipment - the not expossive being an Alan 5900 sampler costing a shalled interface 2000. Because 1900 sampler costing a shalled them 67000. Because the space limitations imposed by the size of the source of the several profits of the week of the shall be provided in 1900 and 1900

The big advantage that a low-cost MIDI based studio has is that your overheads are low. Provided you are able to provide a ressonable standard you can come in with some.





very competitive rates. When even things like plugs, leeds and sockets can mean a painful hole in your pockel you very quickly learn how to solder and build the odd bit or two to keep

One area of work they've developed is providing half-finished recordings! By acting as a pre-production studio, John and Eddie can come up with a complete backing track on a t6 track machine which can then be taken to a full-blown studio for acoustic instruments and vocals to be added. Mixdown cen take place either there or in a smaller studio but the basic tracks have been provided at a fraction of the cost of doing the whole thing in the full studio. The 16 track can also be 'stoped' with a synchronization code to give the artists room to add further sequenced tracks or to work with video if necessary. To add this SMPTF code the studio is fitted out with a Jim Cooper sync box which fialses between the speed of the lape and the speed of the computer

Rifting his savings, Eddie added to the DK5 with a drum machine and then an ST 1040 nunning Steinberg's Pro 24. He then took the financial plunge and, donning kneepads, bor rowed money from the bank having convinced them that there was work there. He bought an EPS sampler and a Roland U1 to multi-timbral sample player. This meant that he could work at home as well as helping out in the studio and try to get work for hymself. Songs are started in his own home - the disk taken into the studio when it is free and then orchestrated in full and recorded onto the 16 track. Eddle is also getting work programming in other studios. At the time of writing he was working on a British Ges advert.

At present he is first about breaking even but both Eddie and his bank manager would appreciate a little more work. He is on 021

DAVE AND ROSE

In good old entertainment agency terms, Dave and Rose are 'A Boy/Girl Duo' and work the clubs most weekends, averaging about three gigs a week, Dave on guitar Rose on vocals and the rest from a D110 tone module. Their personal preferences are for music a-la-Blues Brothers and plenty of authentic Rhythm and Blues.

Not, in fact, the sort of act you would expect a computer to be of the remotest bein with Go back ten or fitteen years and the club circuit could afford to pay for a group to play every Finday, Saturday and Sunday, but as the money gol bighter, the size of bands got smaller. To keep costs down it became common for singers to pay studio musicians to record a backing tape, but the initial investment for this would have cost Dave and Rose a small fortune in session tees. Although Dave is a drummer turned guitanet, his keyboard skills are reasonably limited so a period of trying to record their own backing tapes proved none too success-

Reading about MIDI they decided to use a small dedicated sequencer along with a Roland sampling keyboard that is multi-timbral. "The disadvantage was that the sequencer could only correct minor bring errors quickly although it could record at a much slower pace and then be taken up to speed. The other problem was that it was a pain if you made a

WHY COMPUTERS MEAN LOWER COSTS FOR MUSICIAN

in the professional wand it is very common for musicians to build up tracks at he the segnances (and in some cases the sounds) on disk and then use a studio that they know has the same soft- and hardware. Rether than rehearse for hours or waste valuable studio time, everything is prepared beforehand

For the gigging musician a computer can save pounds in setting up sounds on the synths, pounds in storing sounds of the synths if you nee what is known as a generic patch librarien, which in essence goes around to any piece of MIDI equipment and takes a copy. al its memory, be it sorands or petterns.

As you will see, many nots use sequencing as an essential part of the set. Using a tiny LCD display on dedicated sequencers will save time and trouble and allow the musician to put his or her backing segmences together with less trustration and hence more attention to detail. Time is money, and besides which, a decently sequenced set gets you more work and sounds the part. Despite a certain amount of objections to this way of working, I have always been a believer in the maxim, Taleni will out.

mistake. It look so much time fielding about trying to pinpoint the burn note that it was quicker to start that particular track over spain A tew months back they therefore invested some gig money into an ST 1040 plus C-Lab's Creator. This provides them with visual editing and sections of songs can be linked together with little more than the sweep of the mouse.

They opted for the (Soundbits 3D program which stores back-ups of their sound patches. Songs for the set are assembled while bring and even adding or doubling up on sections can be made before dumping out to the small PR100 Roland sequencer which they use live. The computer has enabled them to use their equipment in a much easier and far more prac-



James works mustly from the 16 track shalin at his home in London end writes music primarly for music libraries and television. To date he has music uses as theme tunes for the world Chess Champlorships, a senes called Gerns and it has cropped up as background music for things as diverse as Tomorrows World and The Russ Abbot Show! He also runs e new-age record company called Lumina which has had three prinaces on far

James started by sending tapes of short almost scrff, sound effects to libraries made

on his Roland Jupiter 8 as he figured that it was a good idea to pick on a topic thel perhaps hadn't been exploited. Its acceptance and sub sequent use led him to further work and more equipment - al present for his main machine he uses an Akay/Linn MPC60 dedicated MIDIsequencer in conjunction with an Akal S1000 sampler and a host of other synths, mainly the Korg Ml. The new-age music occupies a large portion of his time end for this it is the sound and blend of the instruments that is important.

He has an Amiga which at present he uses mainly for graphics but he has recently uses the speech synthesis package on it as part of his new sound library CD 'Artificial Brant's Although he saw the Armga Music X' package and viewed it with interest he is very happy with the sequencer he has, his point being that he has worked with the Akai for so long and is if one with the way it works. Like any well-used piece of creative soft or hardware, it has become an extension of his hands and consequently is very fast to work with.

Setting up the record company was and still is a lot of work, he would advise anybody who is thinking of doing this to work out the distribution - say e mail order or a particular society that may be interested, and to have more than one album to be released initially. Also it is useful to have a partner to share the problems - both practical and financial

D110 WARNING

in lease 221 reviewed the Soc D20 and D118. It transplms that ee far as the D110 tone module goes Roland have been moving the MIDI addresses internelly without making it public knowledge. Consequently 3D, in common with all other D110 progra ber 1, 3, and 5 down on the lower row the left. Anything higher than mk1.06 and most programs won't work. However if you have the latest mic1.10 everything should be OK. It in doubl ring Roland on 01 568 4578.

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** Arts



Vigilante from U S Gold

1994 New York The police dare not patrol the streets The aimy cannot control the city and law and order no-

· 5 levels of play Men Street, The junkward Brooklyn Budge, Back Street and

the Gliders' construction · Different street gangs led by a gunt of a gang leader The Visilante is attacked

by gangs using a variety of krives, chans, gurs and even dynamile in an effort to · Motor tike crews'

attempt to run him over without hesitation Vigilante beors an astonish-Will resemblance to its arcade parent' ST Format

Crash 86% C & V G E1%



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The New **Zealand Story**

from Ocean Fun from down under that will have you standing on

your head Wally Walrus has captured his tea 20 of Joey Keen's friends from the New Zepland zon, and if lower doesn't rescue them all by Served and swallowed at

Wally's table. New Zealand Story is incredibly cute. This is an amazingly addictive game, and the difficulty turing has been set just right Amige Format 94%



_	_			
ew Zesiand Story				
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The graphics are superio, this is one of the best US Gold games to date" ST Format 90%



E GET ONE FREE!



Robocon

from Ocean

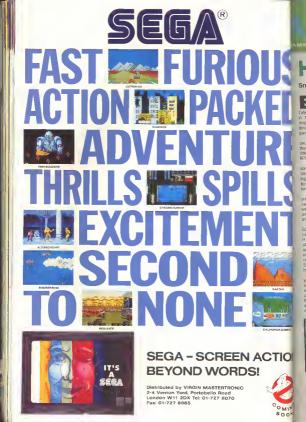
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OVENTURE

HOUND OF SHADOW

Sneak preview of Electronic Arts' new RPG/text adventure

lectrons: Arts have really gwen RPG'es value for morey over the just the ten years with titles like The Bards Title series and Wasteland There's just one fig. in like outhern! — liketylay, the company responsable for these glowing titles, have deceded to get alone and publish then own games whore does that lever Electrons: Arts?

Develorum remoters like Heaver of Strust-

games whose does give level extremely stay. Developing products like Housed of Shedow, thet's whore. Obviously keen to maintain than repulation, Ea are putting their all into this title number, and to keep up the continuity, RMG elements play a major part in the game.

However, and this should be good news for some manistream gamesters. Et are keen to 'denysity' RPG. Not only that, but they're aming to have the best of both worlds in the game by stringthening the traditional graphic adventise element.

We didn't want to produce another objectone-lical adventure game with inlogical puzzles," said product mentinger loss Ellis, "instead we went for a knowledge based game where progress depends on the accumulation of skills and information."

The program, developed by Eldrich Simms, stakes a leaf and inflerent's book by captilising on the teshnoalbe attraction of HE/Lowecartis Noneror stores, Novel, Planur of Shadow takes its sinked rettle in mort soltouty than Livrain Horror. The scenario is set in the 1920's and revolves around a contemporay map of central Lendon — particularly the Solo-New Oxford Street area which is pretty horrif even floodly, let alone say years ago.

You begin by attending a seance at which you begin by attending a seance at a cortien Adept Karmi is actually a fread, but — more surprisingly — to is able to channel threatening and apparently genuen messages from some deabold: agency Without gaving the game away, the rest of the action involves gathering information as you move towards a confrontation with the ungoodly

Part of the cheracter definition routins: all choicas are presented in graphical form. In this case, you have to specify what your character did in the war. Ecware: too much war asperience may sharpen your skills, but it will eleo render you liable to fits of inantity!

MING

CHARACTER POINTS

Like any RPGbesed game, the first fining you do in Hourid of Shakow is define you gene persona. There are no 'parties in this game it's just you versus the universe. You start by choosing sex, age, and (pervessely) your birth diste. The computer then automatically generates values for eight main attributes that michale retense for

physical attractiveness and height as well as the usual strength, dextently and so on. Strangely, you

Strangely, you don't get lo see exactly what these values are. Instead, the computer prarts but a descriptort of your character, dwelling on your good and bad points, as in You are good looking, of average height, and

sys. There's neeson behind this,
however EA were determined not to adopt the
'dice-indicate' approach to RPG'ing, since they
tell that the complexity of many traditional
RPG's out people of

dum-

Personally, I rather like Tables of numbers that tell me exactly how my character is defined, but I can understand the motives here And reading a begonde description of my per soon, running to seemal lines of character axiii yas, was an interesting expensional in addition to the normal character.

attributes, you can choose a profession from several on offer, ranging from journalist to his-

Your attributes on not change during a grown, but your salish do, and it's her that the program becomes a little more conventional There are many different skills for master and these, in caspinction with your profession, are all midally seles young attractive graphical doplays, but charst, and soons. If you take write that the compater was differing you character for you, you soon lose that feeling at this point. Salis are operativally significantly when

combined with certain professions - a historian with good arthropological skills, for example, might be able to spot that the infermous Adept Karrins harben is actually bed the wrong way round All this means that the progress of tho game is clearly and unstakeably influenced by your character attributes, which makes a change from some RPGs where the only thing that seems to matter is how much strength you have left.

Skills not only affect the things you notice, but also how you interact with other characters and objects, so choosing thom carefully (using an attractive icon-tinven menu) is wital to success in the game.

Once you've made your selection the program gives you a delaheld text description of your character that runs to several hiers. Somelines these can be quite amusing, including auch snappets bis "You are often called to sing all parties end are active with a kindfe" or "You are quite an ail eco and can reed people like a how?"



Hound of Shadow boests come hostiful digitied graphics that really anhence the atmosphere. The text tan't quits up to Intecent's Lurking Horrer standard, but plcs like these certainty help to make up the difference...

After this distinctly character-dominated opening, the game springs another surprise by apparently chenging styles into e typical (but very accomplished) text adventure. The differ ence, however, is that you spend less time finding and using objects and more time inferacling with other people unsarthme clues, and exploring. The textual descriptions are excellent (as are the graphics) and the parser. allhough it doesn't tell you which words if doesn't understand, is perfectly acceptable. including the useful GO TO (location) command as well as RAMSAVE, RAMI OAD, and good use al prepositions for looking "behind" end 'under neath' thmes. Once you're into the adventure, time

begins to tick by in the game as well as in real life and although the pace is for the most part lessurely you'll find that events suddenly accelerate once you get towards the end.

There's no doubt that Hound of Shadows is going to be a very attractive product when it his six shelves. We were only elso to test a list's six shelves. We were only elso to test a to wait and we see the first-bed product. However, what we've seen leads us to better that EA without interplay is not quite the sob slary our may have expected. Stand by for a series of games that could we'll end up by giving Bards Tollo on Int of sproncey.

Steve Cooke





SWORD OF ARAGON

SSI give you the chance to indulge in a little fantasy war-mongering...

It is birmoucrd's life being a fantasy wonlord. Slaying cross is one thing but wenning popular opinion with a few well-choset tax cuts while you try to maintain a decent level of business investment is a tisk more suited for Maggie than a Vizigoth (Some differ eron-Edit

The method combal and economic many ement game has been around as long as I can emember. Fould locks were lyings to take one the regional production in much the same teshano back in the Dark Ages of the OSD to called becase the screen west durk entry time it had to thrieff. Bit SSI sort for every time it had to thrieff. Bit SSI sort for the street is the street of the street of a grame on the PC. With a expectation as one of the longset exhabiting as possible of Aragon has a leight, sharp adge when it comes to new lookers.

The first is an element of everybody's bases of the moment — rule, playing. It is no larger enough just to be a arronymose playing the playing the playing to play a mongrouse playing the base of the son and has to the Dake of Acods, a just and good rules who had sown to not the land of another and events where now there is only other and wealth where now there is only chose. Unfortunately for from the pooped his class before he could complete this ambitous, not to say somewhat familiar, but, on it is any somewhat familiar, but,



Sword of Aregon - wergaming with fante

You also get to choose your character type from Knight, Warnou, Mage., Ranger or Pirest. Each has its own advantages and disadvantages plus combat or magical abilities. You start with several noble supporters

tages pus compair or majobe sources. You start with several noble supporters and others will jon you as play progresses and their character class will be influenced by yours. You'll also advance by levels, depending on the daring deeds you do, just like any other good rigo character. Before you can set off adventument.

Sective You can set this releasement you'll need to deal you. Need lesson amour and laise case of the possests, sit form. Iden't as of form long varieties of section. Identify a set form long varieties of protects white reconsing black appropriate and speeding. Results a hoopy populate, that speeding Results a hoopy populate, that speeding Results a hoopy populate, and see that the results are seen of meeting, and there is need to result and as this section used to see they to entire, using a series of meeting, and there's piece you in the results of the seen you form slipping into the read, which in these badonic times man to flooded vision are not protected vision or men.

The citizens got even more delighted when we moved out of the World Game and into but the with a band or once who came vising from the north west, Arranging you troops will be fairfilled to seasoned wangamers. You set our with a square our sor and issue commands from a mean user nabel letters.

Battle orders are sufficiently varied, providing both all ore attack and more detensive politiens. There are ranged weapons and even spells, which become stronger as you gain expension. If you lomporarly lie of belling the broops to attack you can switch to auto plat, merely choosing how appressive you want them to be. The micro may not fight the best function that it all suffice while you shope off the

After the first fight yon should find you self in possession of one of yon tather's belongings. Bringing logether the Scepter of the East the Crown of the West and the Amufet of Alacients

da appears to be a vital part of solving the quest. You should also receive a new recruit who s so impressed by your military skifs he signs up momediately. Then news of events around the kingdom will appear and it's up to you to choose which rumour to follow.

Play progresses in a succession of monthly economic decisions followed by movement and battle souteness, during which you'll uncoper the secrets of the unsupported central areas of Pergon and try to control its settlements. You cann't allow to integrite other aspect, Though ultimate vectory can only be obtained by support around any difficulty resurs, you depend on the callain population for the gold proces to man-ton you armise and the raw recruits who'll



DK, we're cheating, but just so we went to press we got this enesk preview screenshot of EAI's new icon ndventure, Keel the Thief. Coming soon to an ACE page near you...

man them

SSI describes the as enc. and its grain scale is understable. For hardward strategards the share complexity will probably override the share complexity will probably override the share complexity will probably override the same of clay as ubout the scene in. Old new comes to the gener may will be overwhelmed by the number of lactions under their control. It is also a rather cody mechanical expension. It is also a rather cody mechanical expension and Diseases seems, local could be processed and Diseases seems, local could be controlled to the cont

John Minson



A two coll-frashcured front-end, whether ylewed fron the adventure/RPO or the wargams angle. Programs the JUST and Others Vere putating the boundaries back fault, and Aragon disentil seem to be keeping page...

ACE RATING 755

word or waspon intempos to cover every spectal being a fantasy world ruler, from alling your troops into battle to maintaing a stable economy. It rather over-reach said, resulting in a pume which will keep rategy obsessives engrossed but will pass from universifier marks pendie.

CHIPS AND COUNTERS

Sword of Aragon is an interesting refinement of an ancient genre. Unfortunately it designers still seem trapped by some of the traditions of wargaming...

a coffee

Reading the monual reveals the designers' ancestry, references to hoxes and stacking limits indicate that their thinking is still firmly reted in cardboard counters and hexagonal grids. It's a pty when you can do so much

nere in creative presentation with a computer.

However the number crunching power of the micro does free up the player from the vists and complex rule books and endless colculations which makes many traditional games.

so infunating for all but the most dedicated players. The amount of time you'd spend cross-referencing tables and rolling die for a game of this scale would make it near impossible to play.

in the end Sword of Aragon is perhaps best seen as a compiner similation of board game. In this light it scores highly and will please players. But pure computer gamers should think carefully before buying.

NO PROBLEM!

Just room this month for help with ST Chronoguest (which everyone seems to be cursing over) and a few juicy tips for Manhunter new York. Keep those tippies coming in...

CHRONO QUEST THE SOLUTION

India: This is the first time period you must visit. Use the first disc in the slot. After the remateratisation in India go W. Enter the house and USE your gloves on the man's hand, Go S, E, E, NE. USE the note the man gives you on the mahout. Enler the temple and USE the bottle in the water. Exil lample and ride elephant. Go to the man USE water on his hand Gel key then go S, E. Go N USE key on door. Go N. and gel piece of punch card. Then go S, W, W. Get scroll and return in Explora. Press the switch with the push/pull icon to return home.

Egypt: The second time period you must visit. Remember to use the scroll. After the remalenalisation in Egypt go N. E. N. N. Look in hite bush at the left of the entrance. Get the amulet Examine scroll USE the cush/out icon to push the rocks with the combination thal is written on the scroll. The combination it: loo, top left, top right, I op right. Go N. N. USE amulet on snakes. Go N,W USE grapnel to get to the sarcophagus chambedr. USE the push/pull icon on the second, the Ibid. Ibid. fourth and the fifth levers. Gel the nng from the mummy. Close sarcophagus and get the piece of the princh card. Go down, then N. USE the Jurn Icon on the second torch. Go. down, S. S. W. S. Enter Explora and return to the chateau

Prehistory: Make sure you can use your lighter for one more time. Go E. Gel bone and grass. Then go E. NE Get rock USE grass on woods Light lighter. USE lighter on woods Get brnnch. Go E. S. Look in skull Gel piece of card and return to Explora

Maye: Find the three stones, then no W. W, W. Look honse USE turn icon on statue. Gel fory. Go E, E, E, NE, NE, N, N, NW, NW, NE, E. USE gloves on bush. USE nng in hale Wall until 13 60h. The beam will be reflected on the docs. USE adne in door hale. Go up. USE key to unlock safe. Get punch card. Now you can make one punch card.

Alexis Kofteros - Nicosia, Cyprua

MANHUNTER - NEW YORK.

Play the video game, do not tread on all ti magic squares but go strait to the exit (so map), and note the order in which the three balls are thrown and hit their largets.

When all the fairground, play the midd game on the left, you will have to look at the left of the fanground on the main screen fast throw the balls in the order von noted on the arcade game.

M Whitton · Paapehar

VIEWPOINT

"I'm sure that the top settware houses always reaksed from the start that no matter how much edvertisend hype was lavished upon their edventures them sales would never even come near to the latest arcade game conversion, so is the reason to the dis-continuation of Textonly adventures because Level 9's or Infocom's sales-graph Isn't showing any profit margin? I always hoped that these companies were producing these games selling in fantastic amounts they were giving the minority of adventurers Immense pleasure, and I always looked forward to new releases on the advenlure front. Perhaps I was wrong.

Stuart Meshell - Count Durham





near to the , to is the

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Sincleir Lieer - 10
"The most original and playable game in an age."
Aset ST User - 9
"Teste is one of those hortbly addictive games that gath you buying Just one more game."







ARE YOU?

It goes extruct saying that you're persist of Atter 40, you wouldn't have a complant or be reading ACE, if you warren't, you warren't, you warren't, you warren't, you warren't, you warren't out a fault from people, and warren to knoe just low weird they are. Some of you are just all this by worren't fault on the warren't go at a little by worren't go at the persistent you suspect you may be a complaint end, and you do not feel happy shout it. Other readers positivally reveal their strangement, Sain hopes in fifth, and their strangement, Sain hopes in fifth, and their strangement, Sain hopes in fifth, and prouller than the next Chap with a 65000 ist and a copy of Populous.

Now this specially commissioned ACE Questionnaire will let both sets of computare users discover their WQ (Weldrabs as Quident). The higher your score, the crazler you are. And yes folks – one size fits sit depending on which of the law groups you belong to, you will either be reassured or worried to death.

HOW TO TAKE THE TEST

The ACE WQ Test is best taken after a prolorged opell of game-playing or, of this is inconvenient, after several hours of indiscriminate. IV watching Either of these activities should habic a suitably blink state of mind, if you can isto arrange to eat large amounts of piets food beforehand, so much the better.

The WQ Test consists of 20 multiplie-choice questions. Simply read the question and their answer it furthfully by pre-fecting one of the choices. Note down your answers and their hant to page 102 to see what your score adds up to. Then read the appropriate psychological profile for the score you have achieved. The whole test should falls no more than the whole test should falls no more than

15 minutes, although other needs may find it takes up to three hours.

THE QUESTIONS

 For some reason or other you find yourself at a party rather than at home with your startful computar. A pretty girl seems to be trying to pick you up. Do you (a) Let yourself be picked up, but feel gustly should be trainer your computer?

(b) Telf her to get lost because you've planned to finish your latest Infocom game when you get home?

(c) Ask a friend what the hell she's after?

2. You are engrossed in a lengthy session

of Tetris when your mother bursts into your room screaming that the house is on fire. Do you (at Say "CK, I'll be down when I've finished the

(b) Carry on playing regardless?

(c) Try to escape but not before saving your computer and entire games collection first?

 After several years of non-stop games playing your computer decides to give up and explodes violently. Do you (a) Break down as a food of uncontrollable graff?

(b) Not notice that anything is wrong? (c) Shed a few tears — then borrow your father's credit card and buy a better model?

 Your come home one day to discover that your younger brother has 'accidentally' wiped all your discs. Do you
 (a) Hill hos?

(b) Torture has homibly, and then fell has? (c) Not nobce that anything is wrong?

5. Your girthriand discides arough its enough and bits you that either the computer spect, or the does. Do you, call Not notice that anything is wrong? (b) Pass her a tenser and sisk her if she wouldn't mad popping out for a couple of chairs disks before she goals. Of the gits not to go, and resort to gar reptificus grames all three of clock in the monorare?

6. Your doctor tells you that if you don't stop playing gamas you will go blind. Do you
(a) Try to cut down to two packages a

(b) Ignore Ivm, but pot at an advance order for a guide dog just in case? (c) Wonder where the voice is coming from? 7. Your parents force you to go on

a fortnight's cruisa with them, leaving your computer behind. Oo you (a) Sup overboard what they're not footsig and swep back? (b) Shappin your computer and enter games collection through custions by disgrating if all as packed kind? (c) Agree to go but spord the whole holder priving the article machines on board shap?

Ace reveals exclusive details of Sir Clive Sinclair's tatest invention: a suparcharged C5 equipped with an on-board ZX81. Do you

[a] Break down in a fit of uncontrollable tauch-

(b) Wander if it will run your whole collection of games?
(c) Rush out immediately and buy one?

9. Your friend invitors you round to show you how he has managed to forecast global acconcente tweeds for the next fifty years on his 80386 PC using his home-grown financial program, Do you (all Try hard to stay awake, but fair?) I Trank how lucky you are to have such as

incredibly brilliant friend?

(c) Go frome and try to write a better program on your Dragon 64?

10. Your father approaches you about the horrendously expensive items of computer equipment listed on his Access bill. Do you (a) Try to get him hooked on sames so that

you don't have to send it all back? (b) Tell him it's all essential for your Serbo-Croal GCSE?



(c)
Eat
all the
Access bills
before he gets them?

 Your mother goes on a computer awareness course and begins using your machine to produce knitting pettarns, Do you

(a) Deliberately infect all firer disks with the nastrest virus you can get your hands on? (b) Change her by the hour? (c) Wonder why your latest efforts on Deluce Paiel III at look title Fair Iste sweators?

12. Faced with the choice between buying the letest version of your favourite programming lenguage and part 3 of your latest game, do you

(a) Buy the game? (b) buy the language? (c) Not applicable because you'd never in a million years have such a thing as a flavounte programming (anguage?

13. Your mother complains that there are 'buga' in your bedroom. Do you

(a) Promise to trdy up soon? (b) Reach for the machine code monitor and gel hacking? (c) Ask if she knows just whereabouts in the

program they are? 14.A Macintosh ia (a) A desirable computer? (b) A quant word (or a ramcoat? (c) An apple?

15. Your ideal summer heliday is (a) Two weeks of sun, sea, sand and ... (b) One week of sun, sea sand etc. and one week of intensive Populaus

(c) Two weeks of intensive Populous 16. Which of the following figures do you

consider to have had the most influence on the development of civilization (as we know it12 (a) Anstotle fb) Turing

(c) Jeff Moter 17. Which of the following statements most closely describes your feelings about

(a) "I adore them" (b) "I malfy like them"

(a) 1. Everypht is a precious wift - and it

(a) I. You can still see C5s in certain parts of

(a) 5. But can you soun? (b) 3. The best of both worlds (c) 1. A perfectly understandable stratagem.

(c) 5. Slark, staring bonkers.

(b) 3 Admiration is only natural

(c) 5. But emulation is lunary.

(b) I it mehl just work

North London. (b) 3. You'll get over a (c) "They're QK"

18. When someone starts talking to yes about blitters, sprites and screen rel rates, do your eyea (a) Light up with enthusiasm? (b) Glaze over with boredom? (c) Close?

19. When hand-held consoles become evaileble in the shops, will you (a) Ignore them until they are really cheap? (b) Buy one ammediately, whalever the price? (c) Persuade a friend to buy one, whatever the

pace? 20. "Pong" |s (a) A nasty smolf (b) One of the first and still one of the preadest video games (c) An archaic video game

THE SCORES

comes in handy for shoot-emups (b) 3. A sensible precaution. (a) I This is a thoroughly normal reaction. (c) 5. You've had it (b) 3. Pretty odd. We know Infocom games are good, but (c) 5. Totally word.

(a) 3. Some things are more important than more fires

(b) S But you can take things too far. (c) 1. Very normal

(a) 5. It's only a computer, after all (b) I. A bit too normal - and heartless (c) 3. Greet, yes - but let's keep it in propor tion

(a) 3. Let the punishment fit the crime (b) 5 Very sadistic, very weird. (c) 1. Appailmety normal.

(a) 5. Strange as strange can be (b) 3 You callous, self-centred creep.

and computers

11. (c) I It's hard keeping a balance between love

10.

(a) 3. Nice try

(c) 5. You won't get much credit for that (a) 5 Nuis and nasty. (b) 1 The profil-motive is exceedingly ordi-

(a) 1. No, your type wouldn't be plierested

(c) 3 Krul one, pearl one 12.

fall 3. Midfy strange. (b) 5. Very strange. (c) 1. Ordinary

(a) I. Very literal-minded interpretation (b) 3 Nol a minute to waste. (c) 5. Completely out of touch with reality.

(a) 5. You know what you want fol I. Kerky

fc) 3. But us at enable? (a) I Just like (nearly) everyone else

(b) 3 Almost 'normal' . (c) 5. Ulterly gaga. (a) 1. Greece - cradle of crassation, etc.

fol 3 You could make out a case for him fel 5. Clearly the right answer.

(a) 5. A bit excessive (b) 3. A strong band of affection exists. (c) I. Neither hot nor cold.

(a) 5. Are you kidding?

(b) 3. Even enthusiasts can only stand so (c) 1 Research shows that 98% of the popu774E

AFT.

FRE

FRE

PRH

FRE

But :

labor reacts in this way 19. (a) 1. Cheanskate

(b) 5 Maney's no object when you're in the processor bears a la area (c) 3. You're keen - but not that keen

(a) 1. Where've you been for the past 15 vears?

(b) 5 A lan (c) 3. Indifference.

YOUR WEIRDNESS RATING

You are abnormally 'normal'. You seem to have no interest whatsoever in computers or computer entertainment. Take out a subscription to ACE and try harder

35-50 Computers are of great interest to you, but they do not yet dominate your life. You are what our resident ACE psychologist would call 'a well-adjusted personality' - solid, dependable, perhaps just a trifle on the dull side...

50-75 You are well on the way to wendless. Your computer and its software are of great importance to you, although you still remember to brush your teeth and change your socks once a week. Gradually you will lose your old 'normal' habits and move on to the stage where...

75-100 You are totally and utterly obsessed by the computer. Nothing can compare with the joy and the response your trusty machine and your favourite games can supply. Social intercourse is of no interest to you, unless it is related to the microchip, you would mug your gramy if you needed to raise the cash for a new piece of software. You are wend - but whether that bolhers you is another matter altogether; as our psychologist says, "Weirdness is in the monitor of the beholder!



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ne of

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CYBERSPACE

imon Hodson Jurns his head to survey the small room, and, walking to the opposite corner, picks up a chair and replaces it a good five feet from its original position. However mundane it may appear, this smale action could be one grant leap for the gamesplaying mankind as neither the room nor the char actually exist, they're nothing more than computer-generated images in a three dimensional 'virtual reality'

This is not science fiction, it's not even early theoretical research for some far-fetched experiment which may show results in the distant future - Simon Hodson is marketing manager of Autodesk Inc., and the system which allows him to disappear into a world inside his computer is already up and running. Its name? Oberspace

Initially developed as a way to mangulate robots in dangerous situations by remote control. Cyberspace is now on the verse of becoming a commercially viable reality for users of Computer Aided Design (CAD) systems

Oyber space uses customised software to generate a 'mai' 30 environment. This in itself is nothing new as CAD packages have always. carned out this basic function, allowing designers to view their creations from all angles withcut going to the expense of briding a prototype Where Cyberspace differs is in the unconventional hardware interface, which when donned by the neer actually allows entry inside the computer-generated mage



THE HARDWARE

The hardward consists mainly of a bulky helmet' (nicknamed 'Autospex') which incorporates



Help! I'm about to be arushed by a glast pink polygon!

two high definition LCDs, projecting a stereoscopic arrage to each eye lift a similar fashion to the crude red and green glasses used to view '30' movies). Also mounted in this contrapton is a tracking device which correlates head movement with the displayed image, allowing the user as wide a field of vision as exists in the real world

Movement within the newly created environment could be achieved by simply walking about, but this would cause problems if the computer-generated mage was larger than the user's actual environment (what looks like a door in Cyberspace could actually be a solid wall in real file - ouchs). This problem is overcome by the second piece of hardware - The Orb. As the name suggests, this is a spherical contraption which is used to 'move' the environment; rotale the orb forward and objects will appear to move away and so on.

But for complete interaction, the user needs to be able to manipulate any objects within the new World with his or her own hands, and this is where the third piece of hardware - The Dataglove - comes

into its own. Perhaps the most innovative inventen of the loi, this glove is electronically con-

about Cyberspace however is the cost of research so far, the Autodesk team in Sausalito, California has so fai only laid out a paltry \$26,000 on hardware, mainly because of the company's policy of developing systems for assisting computers finantly IBM-compatibles)

This relatively low cost is an encouraging sign for those who would like to see the Cyberspace technology incorporated into future games machines - and Simon Hodson is quick to point out the system's suitability for adventure style games in particular.

nected to the rest of the hardware and allows a

computer-generated image of the users hand

to precisely mimic the movements of the real

thing. Unfortunately the system is currently

confined to using a single glove, as attempts

all linking up a second have so far ended in fall-

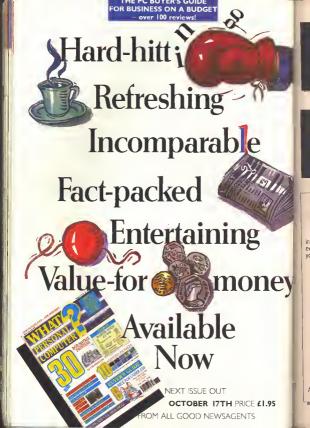
Perhaps the most extraordinary thing

Imagine a Falcon dogfight played out 'inside' a three-dimensional cockort above a solid landscape, or even running onto a fullsteed Kick Off tootball pitch with 10 comput exised teammates. Scenes like these may still be some way off, but Autodesk's research learn is bringing them closer all the time Who knows? Someday soon you may never

have to enter the 'real' world again. .

SUBSCRIBE!

Opps! This Issue was so packed with goodles that we had to elbow the subs torm onto page 1271



THE LINE-UP

The ACE software guide - completely updated and including two new sections: RPG and Wargames. Whatever your taste, this is the definitive list of the games you have to have ...

> 117 Fancy yourself as JR? Of course you don't,

but that needn't stop you from getting in an entry in this Oil Imperium compo and winning a pair of genuine leather macho boots...

118

The ACE Crossword, and your chance to win a prize.

The indispensible ACE diary includes news of a Hi-Definition TV show, and the Editor's birthday.

Shadow of the Beast is one of the most impressive technical achievements we've seen on the

Amiga, and it comes with an original Roger Dean T-shirt

as well. Now a selection of lucky readers can walk away with a free copy - could it be you?

Pot-pourri!

This is the last page of the magazine to be written...Even WE don't know what's going to be on it

123

The ACE Puzzle. Dash your brains out on this one, chum,

Gasp! Could this really be the death of N'Gar Thrombobo?? Here's hoping...

125 The ACE Readers Pages - your ads, your messages, your offers of help, on the pages that belong to the people...

129

Lists, supplied by intrepid readers...

GAMES YOU'VE **GOT TO** HAVE

Ail of the following games are ACE RATED: that means thay're all red hot masterplecas of computer entertainment. Some of the games have been around a long tima: thase gamas are simply marked with the ACE CLASSIC flash, and rest assured, they're all suparb pieces of software and are well deserving of the title.

ARCADE STYLE

including coin-op conversions. Games with a high fun factor and plenty of addictiveness feature here.

ARKANOID

Imagine - Spectrum £7 95cs @ C64 £8 95cs £1.2.95rb · Amstrad £8 95cs £14 95dk • Alan XL/XE £8 95cs • Atan ST £14 95dk ● MSX £8 95cs ● IBM PC £19 95dk

Conversion from Arkenoid the comap, in its him the best seesion of the classic Breakout. Simple in concept: the player controls a bat at the base of the screen. tries bee that a consider The object is to keep a smalt ball in play bouncing if off the ball to destroy formations of bricks in the Loo half of the screen. Eliminate all the bracks and move on tothe next of 33 screens. Claver extra features contribute to the

eddictiveness. As a

conversion Arkandid comes out top, but for a different slant on the SOME Name and some netly music, try ASL's Impact, which also builds up the difficulty lawris more gradually * ACE CLASSIC

faithful com-op

BOUNDER

Gramin Graphics . Spectrum £7 95cs • C64 £9 95cs £12.95dk . Amstrad £8 95cs £13 95dk

A great arcade bounceemus, and very addictive too. You coide a ball as it bounces from one platform to another, high above the vertically scrolling landscape, Land on marked squares and you can stay aloft longer or gain a myslery bonus Fif is a map or hit one of

the game's many nastres,

however, and you'll lose a life Banus bouncing sections of the and of each level help yary the pace, and those lough eups really keep you corning back for more Boelst, with graphics. great masic - and it's so direction

* ACE CLASSIC BUBBLE

BORBLE Firebird . Spectrum £7 95cs @ C64 £8 95cs £12 95dk • Amstrad £8 95cs £14.95ds • Atan ST £19 954k

Playabity is the essence of this buoplayer comagconversion. You and a friend play bubble-blowing drosaus, traveling through 100 maze-andplatform screens, fulting off the bulles by encapsulating them in your bubbles to turn them

into sucy trust. More fuepower and vangus bonuses awart as you reach the more difficult good fun, if a little on the culesy side. Can also be played as one player against the computer. # ACE RATED 958

CONQUEROR Superior · Archimedes £24 95dk (Arriga and ST versous under dessirements

Drive around in your very own tank! Blast the enemy in close combat and plan your stratery for the campaign. This is a tricky game to get to gros with, but if you persevere you'll find you soon become mesmerised by the thing If you an't got a 1Mb Archie though - forget it * ACE RATED 931

ELIMINATOR Heason @ Southum 57.99/s 512 99/sk @

C64 £9 99cs £14.99dk Amstrad #9 99ro £14.59dk @ Afan ST £19 99dk ◆ Amiza £19 99dk

Graphically wonderful roadway blast-em-up by John Phillips, which will bast your joystick leadeout. It'll even have you driving on the ceiling Though it's tough to get to gros with at first, the addiction level's so great vgu'il keep opmus back * ACE RATED 904

EXDLDN Howson . Spectrum

£7 95cs • C64 £8 95cs £12.95dk @ Amstrad £8 95cs £14 95dk

Graphically superb honzontally scrolling shoot-em-up in which you run, duck and jump your way along a planet's surface blasting away at aten delences. A run and a missie launcher are used to blast the foes, but if things are still loo tough then you can grab an exoskeleton for extre protection and fire power * ACE CLASSIC

NEW ZEALAND STDRY Ocean . Spectrum £8.95cs, C64 £9.95cs, Amstred £9 95cs, ST £19 99, Arriga £24 99

Although pipped at the post in a head to head with Rambow Islands, New Zealand Story is not a game to be ruled out. It is emmerse fun to play provides lots of varied action across army fevels. Delinativ worth

checking out * ACE RATED 575 DIDS Mirrorsoft ● Alan ST £10 004k

A magnificent Thrustish blast. The Olds are relying on you to save them but the Biocretes aren'l going to lel them go without throwing mussiles, rockets and a number of other weapons at you included with the treasum is on edit facility that allows you to design your own planetoids - great stuff

* ACE RATED 968 PITSTDP 2 Epyx/US Gold ◆ Avadable

only on Epyx Epics £9.95cs £14 95ck @ 18M PC £29 95dk in completion with Winter Garnes and

Summer Games, 21

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Thrifing racing game where the screen is split into two and you can rece the computer or a friend Lots of different Grand Prix circuits, tyre blowouts and of course the allimopriant pitstops guarantee to give you hand cramp and you brain a real recing breat * ACE CLASSIC

POWERDROME Electronic Arts . Alan ST £24 95dk

This superb arcade-style futuristic driving simulation will have you enthralled for months to come. If may not be lerribly easy to get straight into but it's well worth perservening with You'll be playing this for * ACE RATED 925

PURPLE SATURN DAY Exxos . Alan ST £24 95dk • Amga

A territo mix of games that delivers punch both audio and visual. The consistently good gameplay ensures vou'll enloy playing each sub-

come time and again 1 s a little tricky to nel the hang off, but master it. and you II be pleased you * ACE RATED 912

RAINBOW

ISLANDS Firebirtl, Spectrum £9 95cs £14 95dk, C54 £9 99cs \$14 99dk. Amstrad £9 99cs £14 99dk ST £24 99. Amga £24 99

The sequel to Bubble Bobble is nothing short of fanlestic The graphics and sound are superb, as is the someplay One of the best (my) putest andre conversions of the year thit should not be missed. * ACE RATED 934

RVF Microstyle, ST £24 99. Ames £29 99

RVF offers a neer endess

SPIDER TRONIC Ere International . Atan

you have to pick up fuel and destroy hostile gun ST £19,95dk turrels wilhout crashing into the tunnel walls Guide your spider-like Tough anough es it is, but character around the then vis/ve and to make game area, politecting the return journey with a coloured namels to the heavy land strong toyler correct order. The built-in your graft. Very meen construction sel means very addictive you'll be knocking out + ACE OLASSIC your own levels till the URIDIUM

* ACE RATED 903 SUMMER CAMES Epyx/US Gold . C64 £9 95 cs £14 95ds @ BM PC £29.95dk

complex so practice is

Electric Dreams @ C64

£9 99cs £14 99dk

Amstrad £9 99cs

AND OF ST 0105

Spertrum 49 99ro &

One of the better coin-op-

available. With an In three

players all competing at

inco the action is fast

and furious and It will

complete some of the

more fortuous circuits

Heat presume foliar in the

* ACE RATED 907

take a finely-tuned car to

conversions currently

recommended

SUPER

SPRINT

* ACE CLASSIC

£12 95dk @ BBC £9 95cs £14,95dk The piece de resistance of scrolling shoot-em-ups: blast the dreadcouplet and Epyx sporting simulations attacking ships while dodging around any large structures. Great metalliclooking dreathoughts and the syngothesi scrolling you'll ever see out this head and shoulders above

Hewson . Spectrum

£8,95cs • C64 £9 95cs

THRUST

Firebood . Spectrum

Amstrad £1.99cs

Terrifyingly sensitive

controls and a large

before of real-life physics

make this budget little an

down through the caverns

of an enemy-held planet.

absolute most. Flying

£1 99cs • C64 £1.99cs

are of high quality but none have gustin captured the playability and style of the angenal Summer Games and its immediate successor. Summer Games 2. One to say the opposition. A gares players can take part in not to be missed high laing, gymnastics. especially now that C64 springboard diving, clay versions come peckaged movem shortne with the excellent parmmny, pole you't -Paradroid. and others - with lovely ACE CLASSIC large graphics and smooth animities ZARCH / Hymushruit Coetrol of VIRUS your athlete can be

Superner Selburge & Archimedes £19,95dk @

Firebird (16 and 8-bit versions) Amiga £19 95dk @ Atayl ST £19 95dk @ Some B.hd versions ander development

Sbit ACE'S highest rated eame In date A unlief three dimensional shootemup with such graphic perfection and timelessly addictive gameplay that it became sa instant classic. Now the 16-bit versions have arrived and thay're just as good as the 32-bit usesions All that remains to be seen now is whether we'll be

ACE rating the 8-bit versions * ACE RATED 981

ADVENTURES

Adventures have come a long way since The Hobbit. State-of-the-art graphics and powarful parsers enable you to communicate with other characters, and fully explore the world of your choosing.

BEYOND ZORK Inforcem/Schooling # CSA

a famou 574 00/4 a 21-m ST £24,99ds Infocom's alternot to muscle in on the role niewny market is a great success. Locate the fabrillous Control of Quendor in a game trut

combines the wit and ingenuity of one of the world's most crienal software communicatively state of the art parsing and gameplay Text-only, but with an co-screen mapping # ACE RATED 902

CORRUPTION Ranbird . Atair ST

\$24,954 m Amora £24 95dk • PC £24 95dk a Spartnum £15 05/6 a 6129 (10 05-6

The tals of mades dealings, infidelity and crocked business deals is unlikely to access to adventurers who prefer to wander through vast dungeon networks seeking traccare Rut for throse

who are fed an untitraditional adventures, it's the a bough of book as Superb graphics, great atmosphere and a naibring plot makes this a terrific game that grips from the short * ACE RATED 920

FISH

Magnetic Scrolls ● PC £24 99th Amea

Many surveyley then Compton, better game design than Jatxler, and

not as gunlay as The Pivers, This is definitely MS's best release since Guild Of Yheyes, Good £19 99dk @ PC £24 99dk staff indeed * ACE RATED

CUILD OF THIEVES Rsmbrd • C64 £19 95dk m Spectrum £15,95dkm Amstrod 6128 £19.95dk Ames £24 95dk Attan ST £24 95dk ● PC

624 054 One of Britain's never adventure software houses. - Magnetic Sorals managed to produce a traditional breasure hurb with superb greplacs and some very tricky puzzles.

Powerful perser helps to create a consumo o come world with humour and

* ACE CLASSIC IHGRID'S BACK Level 9 . Atan ST £19 954k

A great follows n to Goomé Ranger Level 9 havs really got to grips with the use of characters in their somes and how to program them very alkarresslu

+ ACE RATED 929 JEWELS OF DARKHESS Ranteri @ 064 £14 95cs

 Spectrum 128 £14.95cs · Amstrod £14.95co £19 95dk @PC £19 95dk Ø Amge £19 95dk

Ø Atan ST £19 95dk

Level 9 have put logether three of their classic releases Colossal Adverture, Dunseon Adventure and Adventure Quest mons bundle. The

games have been undeted with graphics and larger vocabularies and are as close to the original spirit of adverturing as you're Blady to find. * ACE CLASSIC

LURKING HORROR

of speed avenue of the control of th D64 £19 99/k • ST £24 991 Amiga £24 99 @ PC £74 99

Infocums tribute to H.P. Lovecraft and the horror fantasy genre sends you Into a cold sweat as you discover something very nasty lunking beneath your college laboratory. Superb. text-only grane that defies you to play it after dark... * ACE CLASSIC

TIME AND MAGIK

Mandarin ● Spectrum \$14.95mc \$14.95% m C64 £14 95cs £14 95dk Amstrud £14 95cs

\$14 95dk m Mari ST £19 99dk • Amiga £19 994k a PC £19 994k

This compliation of the Level 9 games, Lords Of Time, Red Moon and The Price Of Magik have been revamped with better parent, baren vocabulanes and pictures added Superb value if you rion? already own them

+ ACE BATED 918 ZORK ZERO Infacom Versions due out

about now. Watch this space for price info Highly enjoyable with a vanety of challenges that make for motent addiction. A lot more Character interaction would have made this o real hundinger, but even so it remains one of the best games of the year * ACE RATED

PUZZLES

if you're after a game that will provide you with a real challengs. without necessrily requiring a large dose of strategic thinking, then it's a puzzle game you want.

CSA 57 GGrs a boutened BOHE £2,99cs CRUHCHER

£14.95 At first sight this recent release may appear to be nothing more than a boulderdahs ripoff However there are a number of retouchus gameplay leatures which gue Bosson nother a feel all of its own, Highly recommended for those who prefer to solve

Superior Software • 054

£9 95cs11 95dk • Amea

problems rather than shoot them * ACE RATED 946 -AMIGA miss in its budget

BOULDER DASH

Prism Lessure Corporation Spectrum £2 99cs ●

A name that has everything - metant addiction, Ing-term challenge, frenetic excitement as the clock ticks down and extremely tricky pagzies. You must collect jewels hidden in caverns, digging Hway earth and boulders to get tat them Boulders can drop and cause you snous damage, while the jewels are often hidden by seemingly imperetrable wolls Complea but great fun Boulderdesh is a classic you con't afford to

* ACE CLASSIC

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FO DOPE & Spartners £7,99cs • ST £19 95ck

Optics are the order of the day here Inot the spirit dispensers) as the player beam to a receiver and at the same time destroy a number of cells that are on screen as well You'll need to make full use of the mirrors, fibre-optic conduits and polarisme and refracting blocks if you're to ahoave your arm. Clear the first screet and you it only have 59.

teach to do Fascisating + ACE RATED 906 --**NEBULUS** Hewson • C64 £9 99cm £14 99 dk • Also ST

ST

£1.4 90 49 Guide page to the top of

eight towers used the social of platforms, lifts and ledges that form the south It's a highly original game that strikes a fine hotance between frustration and addiction. added to which is the rotary scroll, thus making it it good-looking, playable winner of a same. + ACE RATED 943 -**C84**

SENTINEL Firebird . Spectrum £9 95 cs a 064 £9 95cs

£9 95cs £14 95 dk • Atam ST £19 95dk • Amega £19 99dk Bizarre and compelling

strategy name played over the chequered surface of a planet dominated by the Section! Fundamentally you have to absorb energy while trying to stop the Section from absorbing yours. A clean brain and fast trigger finger are both necessary in this very ongnal and large 10,000 possible landscapes game

* ACE RATED 963 -ANIGA

SKULLDIGGERY Nexuse Atan ST £19 95

Bouldardash clone that cognistely outrines the onginal on this particular machine. Again (see Boulderdesh abovel you're diegree for diamonds in

coverns over a hundred different screens - with a Skulldiggery scores on playability (easier screens to been with and a choice of starting points and its entertaining two-player

* ACE RATED 918 - ST

SPORE Bulktor • C64 £1 99cs ● Amstrad £1 99cs ● Spectrum £1,99cs

The woolng combination of strapings, freezed Mastroe and great graphics make Spore a worthy luli-priced release wholi a harmone then to ha able to pick it up for 61 99 * ACE RATED 919 -

CEA

TETRIS Mirrorsoft . Spectrum

£8 99 cs • C64 £8 99cs £12.99dk • Amstrad £8 99cs £12 99 dk # Atari ST £19 95rk @ Amira F19.99ek a IRM PC £19 99-6 A lasonabag geometrical

oddity, this Russian

mathematical topic of

ouzzier turns the obscure

packing into a cult name One all a time, shapes fail downwards into a rectanguliri playing area Left to their own rievices. they I pile up until they reach the top of the screen, your task is to guide them down and pack them buháv so that doese I happen. Different versions have proved to be rather variable in their

SPECIALS

wonderful, the aimply unclassifiable - they're all here, from These games are well worth looking et, almply because it's here you're likely to find programs with heaps of originality.

weird, the wecky, the

ATF Diodal Intersention a C64

£8.95cs £12.95dk • Ametrad 48 95cs £12.95dke Spectrum 52 95rt 513 95rb

Excellent combit/flight segulator that's a bit of a change for Digital Integration the simulation specialist. The emphasis is on solid action, the result

bribantly smole idea behind them means they're well worth a look whatever your machine * ACE RATED ESE -

THINK! Firebrit @ 064.51 99cs @ Amstrad \$1 99cs @

Spectrum £1.99cs Originally released by Analysalt of full price, but of that from Firebook.

now available for a fraction A hambly addictive game played on a 6x6 grad - by one or two players - in which you attempt to cornect four counters. forcartally, vertically or

* ACE CLASSIC YOR Lagatron • BBC £9 95cs

£12 85dk • Amstrad £9.95cs £14 95dke Spectrum £7 95cs Very tricky maze game

involving the player controlling two shelds and collecting masks through 15 mazes which you progree Also in litter stages, fish and chickens he is wart, often blocken the masks and just wating to fall on you sed benef your quest to a premature end i ster shill the fish and chackers are the least of your womes as hombs transporters and dolls crop up to consorm azanst you. This one + ACE DATED DES





THE NATIONAL

GRAND PRIX SNOOKER MANAGEMENT POOTBALL DIRECTOR POOTBALL DIRECTOR II CRICKET CAPTAIN WEMBLEY GREYHOUNDS PLAYER SUPER LEAGUE RECORDS FILE

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DARK SIDE Incentive a C64 £9.95cs \$14.95th a Amstrad £9.95cs £14.95dka Spectrum #9.05cs £14.95dk

The second game usnit the Freescape programming system. which sets more of an arcade challenge. The 3-0 craphics are asset superb es are the tasks and ouzzies.

* ACE RATED 915 -AMSTRAD

ELITE

Firebord @ C64 £14 95cs mazes, boruses and £17 95dk e Amstrad obstacles, all within a set £12,95cs £14 95dke time limit. This smole Spectrum £14 95cs e BBC game concept has a host £13.95cs £14 95dk of added features to make tevallable from Superior it particularly pleasing you software) can carry tyes usused time to the next screen, for Still the best enace tradical example, and tackle the different screens or planes' in any outler you wish, Excellent graphics

game Fits set a standard for other companies to follow One of the first space games to use vector graphics. It's a shooting and trading effort sel across several galaxies. with plenty of vacety to the earne play. You nee tradeleg at goods in trelatively! safe systems, or not the gountlet of prates in the valories' danger spots with your hold full of contraband, Either way there is a race line in second doglishing, and as big a task as you'll find acyahere. * ACE CLASSIC

INCREDIBLE SNRINKING SHPERE

Electric Dreams @ C64 68 00rs 614 994 a American ES 00res £14 00th & Spectrum £9 99cs £14 99dk e Atan ST £19 99ck @ Amiga £24 994k A manic maze world where

mass, size and merba combine to ormade secked gamepley. Tricky puzzies and endless nasty obstacles will have you rolling around in delight. * ACE RATED 923 -C64

MAGNATRON

Embed a CSA 68 95es £12,95dk e Spectrum £8.95cs £12.95dk

Puzzies and action Steve Turner style. Save the world by disparating eight satelites. Steni parts from enemy districts to upproads your own drold and hopefully make your job a Sella annuar A ACE DATED SOL

COCCTOIN

£14.95/b

QUEDEX

in this impressively

Trativeus @ C64 £9 95cs

challenging game you must

steer a metalic hall through

ten different screens of

and utterly absorbing play

SPINDIZZY

Electric Dresers @ C64

£9,95cs £14,95dk @

Spectrum £9.95cs @

Ametraci 59,95cs \$14.95

Tremendous stuff; steer

tough obstacles and collect

landscape is a west system.

of catwalks, ramps, fewers

surrounded by lethel drops

and NO safety rails. Floor

switches activate lifts and

bridge good, but tripping

them in the neht order can

he freeder than Pinois &

few bad gives and a lot of

race touches, but the

explorations the final

STARGLIDER

One of the finest examples

of a game using vector

advantage, nets the solid

27) treatment and comes

out looking every bit a

graphics to their full

Ramberl & Atan ST

£24.95dk • Amga

£24.59dk

+ ACE CLASSIC

rewels, against a fieldsh

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your somme top over

TAU CETI/ **ACADEMY** CRL @ C64 £9 95cs £14 95dk @ Amstrad £9,95cs £14 95/9 a Spectrum £9 95cs @ Atan ST £19,99dk @ Amum

water You've gol a large

there is plenty of Egron's to

facing to promplete and

destroy, making this

exploration that stands

lwari show the

competition. + ACF RATED 927 - ST

£19.95 Flight serulator/shoot 'em up and its sequel which are both spreedaty smooth and well put together. The attention to detail is impoeccable as you set off on har-rasing missions as a toace cadet, in Academy

you get to design your own space skimmer craft as uel * ACE CLASSIC TOTAL **ECLIPSE**

Incentive @ 054 £9 95cs 612.95/6 a Amstrad * ACE RATED 934 - CM £9 95cs £12,95dk • Coarterer FD SEns £14 95dk The ford came using the

Freescape system is a bit of a departure from the first two but it's still as incredible game, in total eclase you're betting newed time back in the 1930's laying to prevent the moon exploding. For arcade adverturers who love ourries, the Freescape system is a * ACE RATED 907 -ANSTRAD

WIZBALL OCEAN @ C64 £8 95cs \$14,05th a Ametrad £8 95cs \$12,95dk @ Courtem ER SEco £1495dk

A competing and premate ball same is which you become Woball and must set out to consume the miner creatures which are intent on Himinating the spectrum and rendering the landscape grey and drab Controlling the Woball is erest for and makes this one of the most pieveble names to have received for a lone time

combination of blasting and RPG

Enter the world of fantasy Rola Playing Games with this lot - the best of the RPG bunch, but be prepared to play for a long time; thse games are eddictive...

THE BARD'S TALEII Piechman Arts CSA

£16 95, Amen £24.95dk

The highly successful predecessor to Bards Tale In BT II has the abvantage of being slightly assier to advence. The Ames version firstures some very more sampled monks chants when you enter a temple and excellently reloated graphers. And of course, you can update your favounte characters. ther attributes and equipment for use in ST III. * ACE RATED 920

THE BARD'S TALE III Flectronic Arts @ CS4

£14 95dk The latest Band's Tale

game offers a number of refinements over its predecessors (all of which are still well worth taking a good look att First, the graphics are better animated. Second, there are ranged combat routines which take careful account of the distance between you and your opponents. Finally, the game's large and represents excellent value for money * ACE RATED 920

BATTLETECH Infocom, PC £29.95, ST

Battletech features some provide partner sequences, arcade style action, role play and strategy, in short a complete, full game. A brilliant RPG purchase even though it missed out on an Ace rating. # ACE RATED NOT

DUNGEDN MASTER Flectmer Arts a C64 £14.95dk

> Oupted as being a "milestone in Advanced

Computer Entertaigment', Danceion Moster offers 14 levels. loads of souls etmospheric graphics and sound. All going to make Dungeon Master one of the hest roleplaying adventures to have appeared on any * ACE RATED 949

POOL DF RADIANCE US GOLD /SSI ◆ C54 £14.994k

SSI were very brave to alternal tocaphire the complex concept of the AD&D system on a computer, but they

managed superbly. An RPG-influenced game that will appeal to not only ADAD fear but to emma looking for an enthralfing same that will keep them playing for months * ACE RATED 921

ULTIMA V OnenSystems/Microomse

@ C64 £24.95dk @ PC \$29.95 a ST/Jerusa to be ancounced Astonishing level of detail

in the role-players influenced exic Travel round Britannia trashing the occosition and learning the magrical, tachical, and peangrobical secrets that will enable you to defeat the forces of evil fac underground, Superb romp, great lasting. interest, and truph challenges galore. * ACE RATED 928 WASTELAND

Electronic Arts @ C64 £14 95dk Charge around irradiated LISA whoome mutant

bunees and biker scum in

this role-playing epic. The stmosphere may not be we moved as the Rambe Tale series of games, but the estra dimensionof strategy leaves the cut. slash and spell scenario of the BT senes way beland + ACE BATED 921

BRAIN GAMES

When you want some real atimulation, you rach for the games that really make you think; here's the bast of the bunch

CHESS MASTER 2000 Electronic Arts @ 064 £9 95cs £14,95dk • Arriga £24 95¢h ● Atan ST £24 95dk @ IBM PC £24 95dk

Strongest chess game on the Amora, with excellent graphics, 2D or 30 viewpoint, 12 levels of

difficulty and all the playing options you could wish for. Plus some farty nelly speech synthesis. * ACE CLASSIC

COLOSSUS CNESS 4

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COLOSSUS MAH JONG COS a C64 69 99cs F14 99ds a Amstrad £9.99cs £14 99dk

Rummy-like onental same of stratagy and chance. A tutor program and a short manual make this an easy to use and highly entertaining piece of software for veterans and nowces siike

* ACE RATEO 937 -CSA IHEOGRAMES' BRIDGE Inforrames @ Amstrad

£12,95cs £15 95dk • MSX £12.95 Graphically the best of all

contract bodge smulations, with large nimma cards deported agamsi a surtably green barze background, Plays a good name for a computer, which after all is a list short in the ammenution and five departmenti, and features a wide range of options and bidding conventions

mero. Fast, excellent which you can togete of display, and a supresngly according to your style. large vocabulary teven if d. + ACE OLASSIC strange looking words on POWERPI AV same accessoral Good Arrana & CEA ER OFee enquert to give your £14.95dk o Amstrad strong human apparents a £8 95cs £14 95dk . touch same at the helve Amum £19.95ck · Atan ST £19 95de + ACE CLASSIC

SCRABBLE

IBM PC £24 95dk

gama translated very

successfully onto the

The humbr popular word

If you want totay out your general knowledge, we BATTLECHESS reckon you'd be better off Electronic Arts Amuga with this original and £8 95cs, 5T £9 95cs challenging combination of

Jut the lob if you don't wan tithe demands of real chess' design your own peces. Exten to the music - and then lose the game? it is a sort of Indiback Yuppy board games which could have only originated in the fand of the Jacvzzi. California

Leisere Genus @ 054 \$12,05% \$14,05% a WAR GAMES Amstrad £9 95cs £14 95

Fancy yourself as a master of grand strategy, marshalling hordes of troops and sending them off to do battle on your behelf? Look no further then the ACE selection of war dames.

ARHHEM

CCS, Spectrum £8.95cs. Amstrad £9 95cs, C64 60 05ee

Amobien was restly the bed in the field. It has no the expected atmosphere, five seperate scenarios and one of the trushed computer opponents you could ever we'll to meet. A thoroughly abrobing classed as one of the old * ACE RATED 910

COHFLICT EUROPE Mmorsoft, ST 24 99, Amira £24 99, PC TRA

The 16 bit progression of Theatre Europe Conflict Europe featured lots of extra graphical and sound effects. The computer controlled intelligence was marginally sophishcated but still enough to give a challenging game. The porrect balance between strategy and externent throughout, Great for beginners and elermediate players * ACE RATED 882

THEATRE FUROPE PSS, Spectrum £9 95cs. D64 FD 95cs F14 95dy Amshad £9.95cs £14.95@

The perfect game for 8 bit owness who go green with entry when they look at Confict Europe, Theatre Europe is the forerunner to the excellent 16 bit game The graphics and overall play are not as sophisticated, but it is still one heck of a name

* ACE RATED S18 UMS

Rambard ST £24 95 PC £24 95, Macintosh £34 95, Amiga £24 95 Probably the greatest was game to date UMS uniqu 30 systems enables the creation of almost any battle in fastory. As well es a very sophisticated computer opponents vet. On top of this are add on scenages from the Wetsom was and Gettysburg, plus many others in the runking And if that's not enough it contains a very neat conbuction lot to keep you

going for even longer. An

essential purchase

* ACE RATED NOT

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monster seline Trivial

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* ACE RATED 935 -

graphically very pretty in

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SHINY, SHINY LEATHER!

Rainbow Arts are giving you the chance to w3in a pair of real Texan Oil Baron cowboy boots

Yessreel, With an Ace Rating of way over 800, Rainbow Arts' latest game Oil Imperium has rightly received a great deal of tantastic praisel (says our reporter Simon Harvey). Now we've been offered a par of gen-u-ine shiny black leather Texan boots to give away to the winning would be oil barron in this tabulous Rainbow Arts/ACE competition.

Of Imperium is a game which precises you against bur other ruthless oil men as you attempt to control the targest slice of the world's supply of black gold – putting the others out of busness by far meens or toul. There's also a generous helping of arcade action as you drill, lay pipelines and include in some heavy counter-esponage.

THE COMPETITION

SMAC SOMY INTEGRATED 7 IS THE DISCRESS AS PRICE

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Blank

40K

So, to win the boots, and get one step nearer to total domination of the oil world, simply answer the following questions.

- 1. How much money is each player allotted at the beginning of the game?
- 2. What character does Larry Hagman play in Dallas?
- Which of the following Is not an oil company?
 BP., EMAP, Exxon.

And DON'T FORGET TO INCLUDE YOUR SHOE SIZE! Send your answers on a postcard to

RAINBOW ARTS SHINY LEATHER COMPETITION,. ACE, Priory Court, 30-32 Farringdon lane, LONDON EC1R 3AU. Entries to reach us by 10th October.

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THE ACE PRIZE **CROSSWORD 18**

Set by Mas



The ACE Crossword is cryptic. The answer may be an anagram, or formed from the end of one word and the beginning of another, or smoly finited at in the cive. Most, but not guite all, of the answers are computer related

ACROSS

5. Game played by Rod and I in Bono's house (8) 6. Basic instructions. perhaps (4) 7. Person striking Joker's enemy in game (6) 9 A few bits - sounds like a bytel (6) 10 Intends to change

rames (5) 11. Wired up in a strange Way (5) 14. CIA is cracking the code

(5) 15. Nonsense about old boy being an android (5) 17. The French Female caught in senile game (6) 18 Doctor gets a satellite receiver - it's fashionable (6) 19. One with branches in every street (4) 20. Rex notes characters for

a game (B)

DOWN 1. Ocean traveller's game (7)

2 Indication that top game's in the wrong (4) 3. One is about to go ahead with pame (7) 4. Solid state of stars (5) 6. Unusually nice boy Dr Hewson produces (9) 8. Mental picture of a software house (9) 12 Traipse around for a computer game (7) 13. Addictive game for a marksman (7) 16. Rolls Royce lavabout lounge lizard appears with

18. Team playing friend (4)

Send your antries to Priza Crossword 18, ACE, 30-32 Farringdon Lune, London EC1

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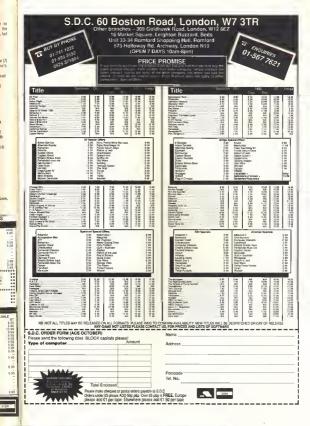
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9 55 Ges Bes Air Rally Romantic Encount Rogin Rabbit





ACE DIARY

1st September - St Creckle's day, Patron Soint of Rice Crisplea

Phew, what a month you lot have ahead of you. just yet a load of the software being released this month: From Psyanosis there's Ballistic on the C64 and PC, Triad II on ST and Arriga, Stryx OR ST and Amaga, Never Mind on ST. Amaga and PC and Shadow Of The Beast on the Amiga. From Ramprose and Microbird, there's F-19 Stealth Fighter on Spectrum, Tank on PC. Red Storm Rising on PC, Ranbow Warrior on all formets, Mr Heli on all formals, Quartz on ST and Amiga, Renbow Islands all formats. P-47 all formats. Carner Command C64. Amstrad CPC and PC, Stanglider II PC, Werd Dreams PC, C64 and Amstrad and Stunt Car on the Spectrum, ST and 64. Con what a scorobert

5th September - ACE October issue on cale

Packed with exciting features, reviews and more colour than a baboon's behind, and as usual, a whole month ahead of itself

11th Sentember - Release of Retman

Lucky Spectrum and C64 owner finally get their hands on their very own digital regresentation of Michael Keaton in Ocean's biagle. Batman the move Sorry, but everyone else will just have to wart.

16th September - H.D.T.V. Exhibition

Want to get a sneak preview of the vision technoiogy of the future, then pop along to the London Ryan Hotel and take a glimpse at the new High Definition Television Apparently, watching a recording of a goldlish bowl on HDTV is exactly like walching a real goldlish Incredible

23rd September - UK Electronica The premier music electronics show this month. The place: Logon Hall. The time, 1 00-PM Expect loads of guest appearances from artistes who have discovered the wender of

STs. For more details, call Mark Jenkins on 25th September - A National Hero is born

(01) 885 5665.

A day of great respicing for all, especially those in the vicinity of Farringdon Steve Cooke celebrates 30+ years of pleasant existence. Many happy returns boss, and so say all of us! (Well, all except Pete Connor, because we didn't actually tell him. If you knew him, you'd understand whyll

27th September - PC Show opening day!

The gales open! The crowds road The stars roll

up in Impusined At last the PC Show has started Sadiv, most of you won't be able to get in cust yet, as the first three days are trade only, and even if you are trade, you've still got to be over 18, so nyer!

27th September - Batman Amiga and PC swoops inf

has never been seen before. Ocean release the Armea version of Batman Oh end, will Batmania never die?

30th September - PC Show goes public!

Quick, now's your chance! You can get in now, so don't delay Pop along to Earls Court and see all the latest games and hardware, including your first chance to see the KONIX Multisvsterriff Plus you also get to meet the ACE crew. but who wants to meet Pete Connor?

1st October - Time to look forward to more anflware

Lots more releases this month, including among others Xenophobe on all formals, UMS If on ST, Armga and PC, Sturt Car Racer on the Arriga, Blood Money on 64, Inlestation ST/Armga and Matrix

Maraubers on ST. Amiga and PC. Busy busy busy!

3rd October - 8th October - Olympia Decerative and Antique Feir

Here's something fun and educational for you to do if you've nothing else on Ms all happening at Faris Court and looks like it's going to be crute a ball with all sorts of sur prise guests, an army rudo demonstration and lots of lovely grandfatter clacks

5th October - ACE November laage ameahes into the ahopa.

Early as usual, the new ACE is quite positively the best one we've done this month. I nads of

neviews of all the top games and a feature on CDL what more could you want?

6nd October - 1.3th October - Not a lot Well, what a pretty dull month October is. Not a

lot happening at all. Ho hum, Well, at least Pete Connors isn't in. 14th October - Betman on the ST In a dazzling presentation, the likes of which

Yes, it's the caped crusader again. To tell you

the truth, I'm getting a bit fed up of him. 20th October - 29th October - The British

Motor Fair

Drive along to Earls Court Exhibition Centre and stand for nine days and droof continuously

over the plethora of new and wonderful cars. all costing the earth and guaranteed to get pringed within a fortright of purchase

20th October - Cabal hits the turf.

Long awaited two player arcade conversion Cabal arrives at last, but it remains to be seen whether it's been worth the wait.



The kenix will be launched this month at the PC shaw .. but den't expect to sit on the famous Konix hydraulic chair until Christmas. Santa's genna have a bit of trouble getting these en the chimneys.

B

0

BEAST FEAST!

Psygnosis have come up with a game that really squeezes every last ounce out of the Amiga, Grab a pen and you could get your paws on one of TEN free copies or TWENTY free Roger Dean T-shirts...

885 rated Beast (see pages 70/71) has to be seen to be believed. Even ACE reviewer Tony Diffon, who's seen some sexy software in his time, returned from his visit to Liverpool almost speechiess. What they've done with the machine is extraordinary, he said and judging by our own glimpses of the game, we have to agree. The parallax scrolling is unlike any you've seen before, feetung far more levels and infinitely better use of colour. Sprites are exquisitely drawn and range in size from the big...to the enormous. The soundtrack is stunning (featuring more sound data than on the Atterburner and R-Type arcade machines put together) and the action Is fast and furious. And to cap it all, you don't just get the game, you get a Roger Dean T-shirt at the same time.

So what's the deal then? Well, Psygnosis have given us ten copies hot off the duplicators' deck, together with twenty genuine Roger Deen T-shirts, designed exclusively for Psygnosis by the great perman himself. And all you have to do is this...

THE COMPETITION

Simply answer the following questions... easy, isn't it?!

- 1. Which company programmed the first ST game released in the States and then in the UK?
- 2. In which city are Psygnosle based?
- 3. Which of the following is not a Psygnosis game? Barbarian il, Barbarian, Captain Fizz and the Blastatrons?

Send your answers on a postcard to

BEAST FEAST, ACE, Priory Court, 30-32 Farringdon lane, LONDON EC1R 3AU. Entries to reach us by 10th October.

WORLOWIDE 1 BRIDGE STI GALASHIELS TD1 1SW		W RL	DWIDE 106A	CHILWELL RO	AO, BEESTON NOTTINGHAM NG91ES
No. No.	Description Column Colum	South, Midlanda Overse Welso Notice	Column C	Grand Control of the	Prof. Martin Prof. Pro
Section Sect	Company Comp	CAN DELEGATION COVER BOOK PARTS SERVICE THAN THE SERVICE	The column The	Page	1

COMPILATIONS COMPILED AND RATED.

As the winter settles in ATAN ST 429 99 software houses start dusting down their old titles to extract a few bob more out of them by putting them on compilations. Here are the main ones to watch out for.

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Hewson.

Eliminator, Cristodian Mercenary, and Backfrish. ACE Reting 875

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Batman The Caped Crusader, S-Type, Last News II, Dark ACE Rating 939.

Light Force.

Ocean. ATARS ST E24 99ds SEPTEMBER HANGA £24 99ds SEPTEMBER K+, S-Type Balman - The Caped Crusader, Voyager ACE Rating 840.

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Blasterads, Thursderblede, LED Strovm, Indiana Jones -Temple of Doors *, Impossible Misson * Not on 16bit versions. ACE Reting 820.

Glants. US Gold

A38GA £29 99 SEPTEMBER Outrus, 1943, Street Fighter, Gruntlet. ACE Rating 810.

Triad II. Psygnosis.

£24 95 Basi, Menace, Tebris

DIGITAL PASSION... This gripping serial, begun in issue 23. has had to be hald over for legal

reasons. We are consulting with our solicitors with regard to the slieged offence caused to Miss Norberts Finch-Bestard by allegations concerning her relationship with certain kitchen utenalis. The facts, and nothing but the facts, will appear in next month's issue.

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ADDING ACE

In an alphamatic onzzle, letters are printed in place of the original diods and the problem requires you to je substitute the numbers and find out what the sum is

For exemple, what three-digit number is represented by ACE in this

The solution is shown on the right - that is, A-2, C-5, and E-1. This month's problem is in two parts:

ACE ACE ACE 18 ACE'S ? ACE's

The first problem is to increase the number of ACE's to be added to 18 This still results in a solution represented by the letters EACC. Having done this, increase the minutes of ACE's still Arther and try to find yet another solution which results in EACC

As with all puzzles of this type the same letter stands for the same diali wherever it occurs -- different letters represent different digits. Of course, each of the two different problems will require a different substitution.

Don't forget - next month features a whole new prizzle section. Check out next month for a backlong of pusszle

ACE PRIZE PUZZLE ENTRY FORM

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Computer owned.....

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The closing date for entries is October 5th

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THE ACE SERIAL

The Death of N'Garr..?

Garr Thrombobo was the world's first lotally artificial electronic mitelligence. He also looked like being its last. From his humble beginnings as a Centaurin Buttledrone in Reburn of the Mutant Hillers from Mors, he had struggled agonal his human creators – who then became his tomrendors.

His was the most powerful intelligence in the known unsers, and yet gasmet the colorsal, unyelding and internate stupidey of the human race he was apparently imported. He had been stamped on, unmersted, bembarded in a particle accelerator this his neutrons boiled, and even flung himself back from the neuers settl limbo of non-space as a ramal piece of antitracte to confroil his mortal enemies those ghastly, sithering, fluctoch baps of prototions ghastly, sithering, fluctoch baps of proto-

plasm called The Hirman Race. The Grimleythorpsedala Insurrection Party was composed of members of The Human Race, albeit ones even more phasity, sithering and flaccod than usual. If formed a major local political force. To such a degree theil it controlled the local council by a sizable majority. and thus had ample funds for the purchase of guns, ammunition, explosives, casual yel attractive combat wear, soft feather jackboots and matching accessories. But given that such items were generally in rather short supply in Grimleythorpsedale, GR was left with large amounts of money left unspent at the end of each financial year. Money which had to be spent to ensure the same allowance next year Hence the last-minute purchases of such items as Mussey Furgatroyd ar-conditioned, cruisacontrolled dustom formes, Acmie Superdeluxe Roadsweeper Turbos and - crucially for that smalf part of N'Garr Thrombobo still existing within the molecular structure of a mis-shapen little fump of anthracte - a McDonnell Douglas D-16 drive-by-wire mechanical earthmover.

At the very instant that the prace of anthractic was about to be crushed to smithercens. Thromboto ported himself through the metal links of the tracks, down the leading axie, np through the transmission housing and into the D-16's central processing.

What power! Thrombobo sent the digger careeng around the site of the explosion feaused by the grawtabonal wormhole and a

subsequent neo-temporal paradox), and the driver flying from the cab. Rawing up the twen further-desets, Thrombobb then spain the digger round and armed if at the nearest visible sets of imman infestation – the main hospital buildings. Notching the vehicle into first, he neviet the eigher to its maximum, then dumped the citich.

The machine's tracks dug deep into the soft ground and their the digger was furthing lorwards, shovel still held slick. As the whiteaccelerated, the shovel waved drankerly up and down, splaing earth and bits of nubble over its sides as it did so it did not split, however, a small fragment of floopy disk just sticking out of the rubble.

"Splurngghh..." went the matron as she looked through the window over the shoulder of Mr Sangh, the replacement Head Surgeon. Her cup of tea felf to the floor.

"I say, Malron, do you mind?" he objected, taking off the trificents and cleaning off the direptets of las with a portion of rather blood stanced surgicial gows. The fronted shiphity at the sound of breating glass and collepsing masonry, and turned to see the diager clinking its way towards him over the rubble that was all that remained of the wall.

"We Bindgren, please con't make such nose. And what do you want do you want no take you temperature agent for?" he said, imspecting the digger's bucked over the last influence and staining a themselved over it has foreign proceed. "You know you really cupit to locar more themselfecouring/ingresspooling." he went as he slid underneath the earth-move's trocks.

"Help! Help!" shrieked the matron, grabbing the petients as they pushed to get out of the ward and throwing them over her shoulder, "Hele."

The sound structed NGarr Thromboke, and he turned the diagent beareds in. The bucket caught the motivon in the posterior yest as he got oul into the cornder, and also and the hotchet dropped to the floor with a through the caused the hospital's foundations to settle three millimeters. The diagent's bracks spain, thying to goid a parthase on the war's potal-ined floor, and the mattorn huffed and puffed, trying to this hospital or to the bucket.

Then the mintron was up. The digger abruptly tipped backwards and the brickel went crashing linguish the colons.

"It's a disprace" shreked the matron, approaching the rish, she chribed in, revived the etigine and managed to displaye the busk of from the ceiting. It came down smidst a shower of pissine, wooden beams and sox havderedwaget of botted cabbage being stocked by the loogstal letchen for next mostil.

N'air' Thrombool Intel to westle the con-

MGarr Thrombobo Iried to wrestle the controls away from the woman, but to no avail "This must belong to the demofition

have the control of t

hydraulic circuits was proving strangely lack, the drove the diagnor over the pleo of boxied cubbings on the charges cover the pleo of boxied cubbings on the corridor and fined moving the bucket up and down. It did't work. He realised their bull, somehow, its horrolly rice and allowable capable charges will strength or crafted when his flospy dok was stocal in half — must have found has vary with the play dialic ranss, through the constitution one of the CPU's ROM pooks. Comment and the CPU's ROM pooks.

the man sargical ward. The bucket was now totally under the control of his other half, and was thing patients out of harm's way before he could crush them beneath the digest's facels. Maddeed, he smaked through the wall stot the gentalics want, where the McDentell dought's robotic manipulating arms tratically prefiled, shield their collection of the control of the them feel as comfortable as possible counter in an estit-from enthmore was unrang amok

M'Sart Thrombobo was noensed. Blowing too great billows of smoke from the school stacks, the digger lined up for the doors at the cried of the wast started forwards. Glass and wood their certain started forwards in risk. Then it hat the wall on the other side of the common with a bowering imposed that loosned Thrombobo's data in its tracks. Orest and Thrombobo's data in its tracks. Orest disparts bucket arm buckets as the 'tracks claimed at the final started as the 'tracks' claimed at the claimed as the 'tracks' claimed as the 'tr

feet from their bedposts.

Then it surged forward, breaking through who the world outside. Unfortunately, since the hospital was built on a slope, it did so from the first floor. N'Garr Thrombob could only with helplessly from the authinoure's ROMs as the velocies plunged towards the ground below —

Was this, at fast, The End.,?

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RICHARD PARKER'S TOP TEN PAINT COLOURS

1 Cocumber

2 Buttermili 3 Davie Grey

4 Honeydew S Magnolia

7 Poppy (nach) B Same 10 Hyrabell

RICHARD PARKER'S TOP FIVE PLUFFIEST POCKETS

1 Avant Denim Jeans Pockets. 2 Yankee Basix Blue James Province

3 Barry Disley Bis/Green Streed Short Broad Product. A Adidas Black (Purple/Green Starts) Tracksuit Tp Left Hand

Pocket. 5 1847 Proteers Black leans Back Right Hand Porket EUGENE LACEY'STOP FIVE FAVOURETE CAMES INCLUDING COIN-OPS

1 Scramble. Power-ups hadn't been invented but I couldn't step pumping in dosh. Finally clocked in a pub in Dublin*

2 Defender "Created by another Eugene, Eugene Jarvid. Fave game of the Apple Macintosh design team. Totally balant in every way!

3 Pacman "It's moronic, but I still can't walk past one on the few occasions you spot one these days. 4 Elite "My diary for Thursday the 11th of February 1988 rends Became Eine al 3,21 am F*#Any brillant Made

a Mushroom Cup-a-soup to celebrate 5 Tatris. Wintendo have wasely converted it for the Game. Boy The Lynx will need something good to best this"

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The BLITTER END

NO GOLD AT THE THE END OF THE RAINBOW?



Microprose marketing man officialing at the launch of the Greenpeace game Rambow Warner was understandably confused. Struggling with the joystick and a pre-release version he consistently lailed to rescue the hapless seal who, floundering beneath an ice flow, was clearly getting low on oxygen. 'Oh wel,' he said, 'if you get fed up, you can always start clubbing them instead? Although this remark sparked off an unholy glini in some of the gamesters present, who reckoned that anything on the screen which moved should be shot (or, if it didn't move, shot until it did0, it did cause a few of the assembled Greenpeace brethren to choke on their ice-cubes

But what did they expect? You can understand the poor PR man's problems. If the Rainhow Warner appeared in any of Micronnise's other games, it would be firmly in the centre of your sights as you toggled the AGM-65D Mayencks before papping over to Libya to map upany remaining Medicines

When asked why they'd chosen Microprose, Jonathan Smales of Greenpeace replied that it was precisely because of their militarishe software. He saw the Greenpeace game as a chance to convert the most confirmed technocides to the joys of green living and peace on earth. You might as well prance into the den of a hungry lion and toss it a Jordan's Crunchy

Greengeace didn't really choose Microprose at all. Microprose chose them, since most of the other major players in the Industry had already rescied the producl. And if you're wondering why anyone should be so stupid as to turn down a casi-ron profil apportunity. don't - despite a ton of good intenton, there's only an ounce of nameolay in the entire program that would satisfy anyone over eight years old. Descrite every-

thing, the launch of the game ended on a good note. As the udeo demonstra tion came to an end, another purier remarked (in an

embarrassingly loud voice) that one part of the game looked just ike Fragger. At least someone can appreciate

Having trouble with Super Mario Land on the Nintendo Gameboy? Of course you are, Our hol tp (courtesy of ad manager Gary Williams) is to head the bricks on the Egyptian level when you see pipes that you can't jump up to. How presio...invisible lifts!

a green game ...

Woddow bells are in the air and Ritter has been digging the conlecti out of his har since last week when top soft-tycoon Mark Cale the of the two Ferrans) was wed. Blitter's spies report that he had two strippers at his stag do (abviously likes things in twos, does Mr Cate) and has now whisked his new trouble and strife off on a four week lour of the far east.

Lucky gril. Not only will she be sporting an exote sun tan on her return but she'll be part of the only counts in Prener with His 'N Here

More lovey dovey stuff has been poing on a bill closer to home where a certain Editor of a 'sis-

ter' publication of ours as off on a short trip with his surlinend. No surprises there, until we gol wind of their destination. The Teddy Bears Far. Apparently the lady in question has a house full of the furry beasts - most of them bought by this same Editor. Bitter wonders where Julian Rignal gets the money to out into slot machines with all those toddy bears to

But there is no time for romance in the big bad world of software. The shops are not happy. Apparently you lot have been soaking up the sun, playing lennis, watching the Aussies slaughter England in the Test Series .. and not buying any games. One big distributor is so naffed off with the summer slump that he's considering closing down next summer for two months like the French, Bitter wholeheartedy supports this proposal it would be areal. Gary Williams could play with his Garrie Boy, Steve Cooke could repair to his Cornish hovel to medtate, and the Bitter. 3

Stand by next month for an in-depth report about piracy in Trinidad and Tobago.

interesting facts department importation of computers by individuals to the Soviel Union has shot up in the last two years, thanks to the relaxation of travel in and out of the country. The reaction from Soviel customs and excisehowever, hasn't been long in coming. From the 15th August, new duties have been applied to the importation (all greatcoats to be removed while passing through customs) of various Spectrums, C64's etc. You will now have to pay 5000 roubles per machine (about £1000). You have been warned, comrade...

Meanwhile back in the decadent West, jel set ter Jerry Hall has joined ACE as Dep Ad Manag er...Jerry Hall from Biggleswade, that is, He s a perky fellow, but his lens just aren't in the same league Blit-blit

Well, what can we say? Last month saw the worst copele we've ever had the misfortune to suffer when the letters pages turned out to have been checked by a systexic Martien with a d word-check program and termyopie. We meen the Editor, of

of Itsia month's issue is error free

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